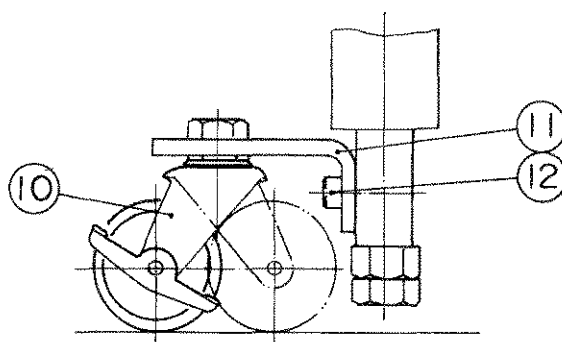
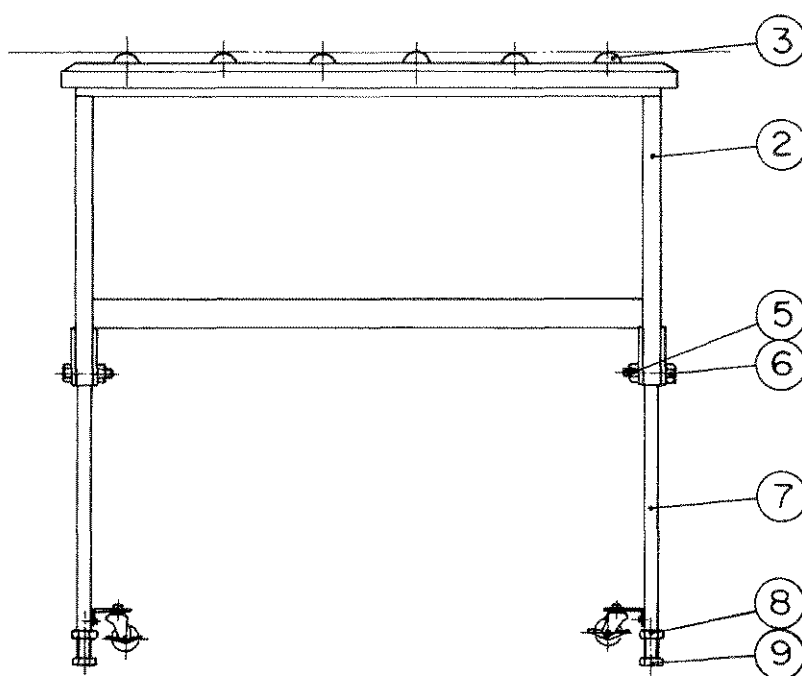
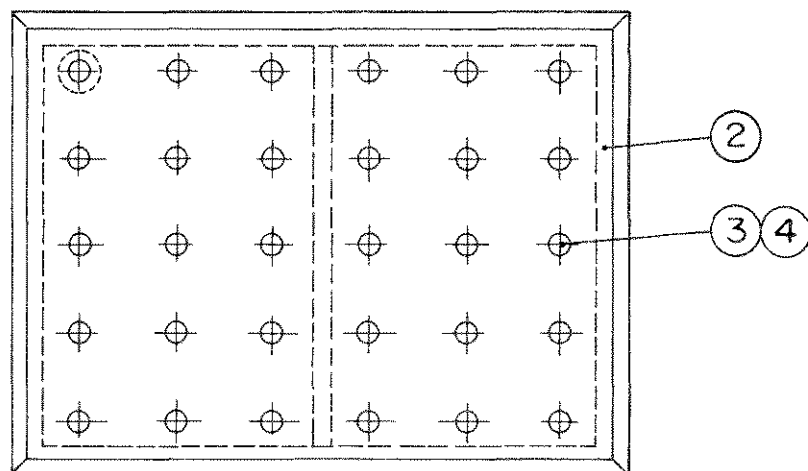


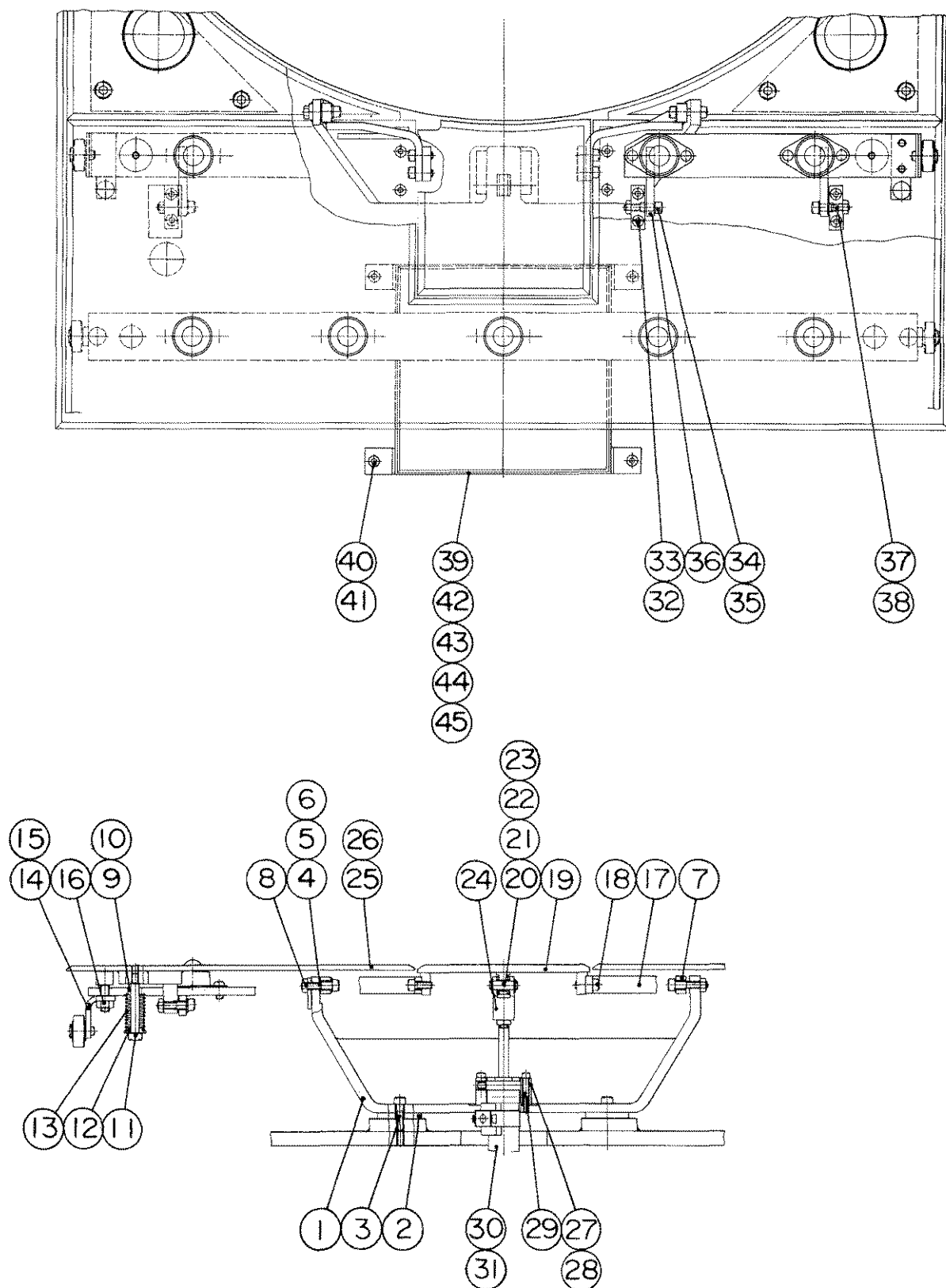


Unit No. 13

Sub table (option)

From serial No.03670013 and after.

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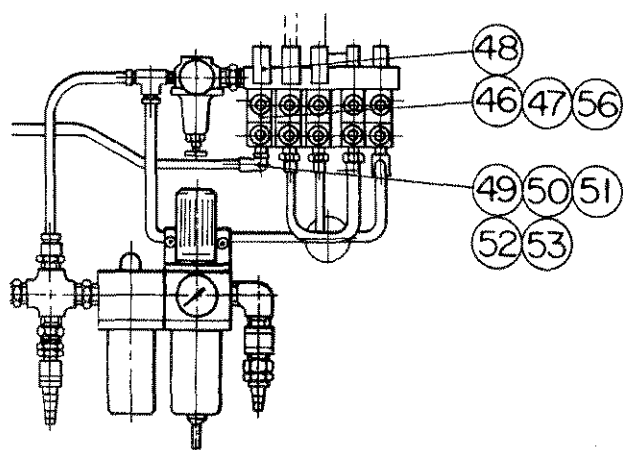
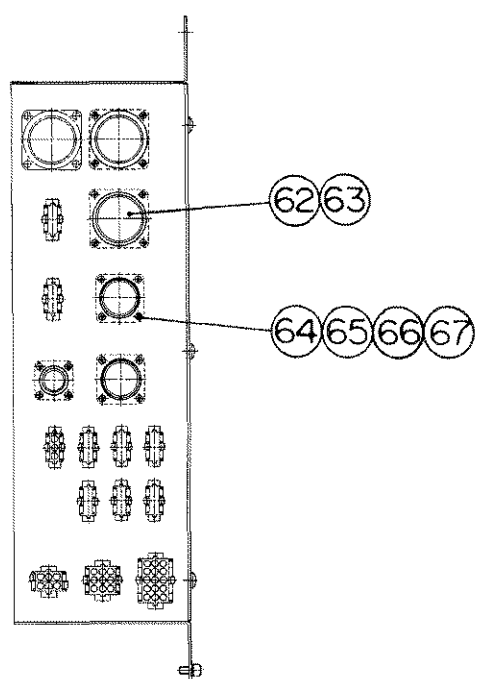
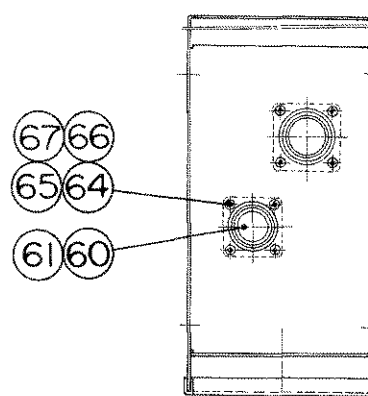
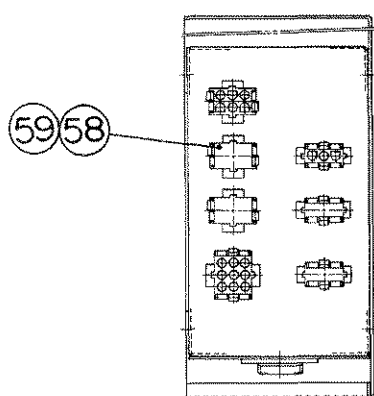
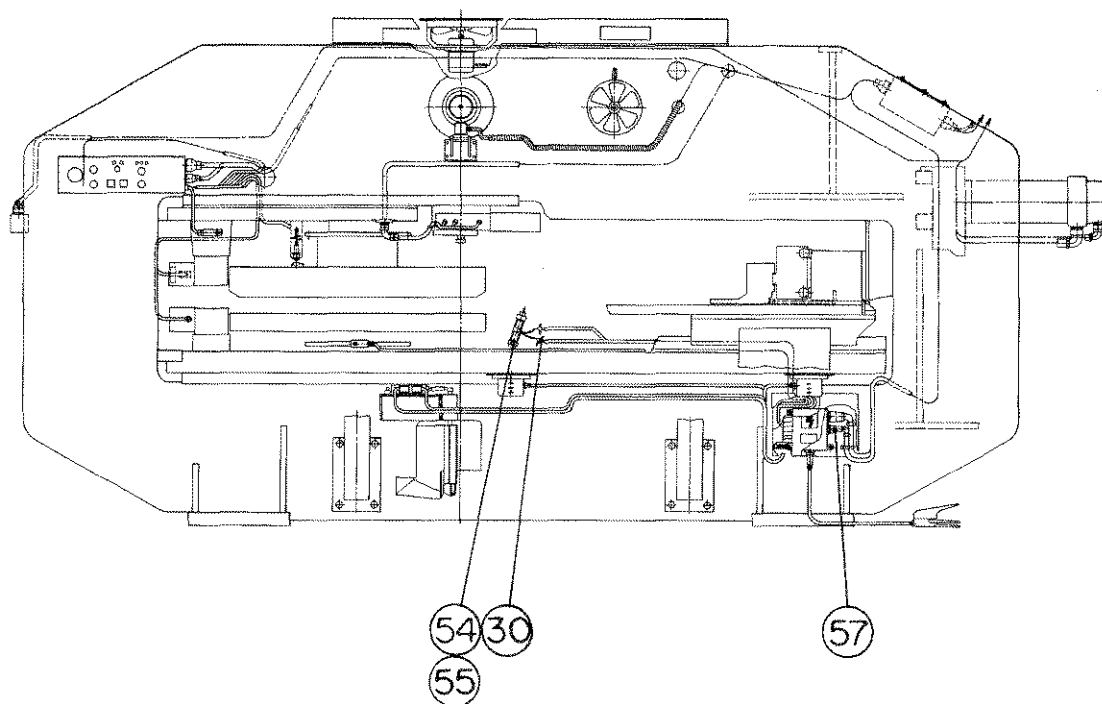


Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
1	74304103	Work chute bracket	823511a	1	
2	74304124	Spacer	819343	2	
3	74302818	Cap screw	M8 x 30	4	
4	74301627 (38020507)	Cap screw	M8 x 35	2	
5	74314921	Oilless metal bushing	MB0808-15FDU	1	
6	74305320 (56127502)	Oilless metal washer	WC06DUN	1	
7	74305311 (55125127)	Oilless metal bushing	MB0808 DU	1	
8	74300504 (10001517)	Nut	M8 (type 1)	2	
9	74304003	Free stroke bearing guide (F)	823521a	1	
10	74304004	Free stroke bearing guide (R)	823522a	1	
11	74304023 (43134309)	Stripper bolt	MSB-10-55	2	
12	74304013 (74333912)	Spring collar	830399	2	
13	74304009	Spring	813163	2	
14	74304543	Roller bracket (F)	819344	1	
15	74304544	Roller bracket (R)	819345	1	
16	74300606 (44235241)	Cap screw	M8 x 20	4	
17	74304127	Arm	823514a	2	
18	74300606 (44235241)	Cap screw	M8 x 20	4	
19	74304107	Chute table	823516b	1	
20	74304715	Pin (Z)	823518	1	
21	74314616 (10205431)	Snap ring	STW-10	2	
22	74300512	Washer	M10	2	
23	74305319 (10319265)	Oilless metal bushing	MB1010DU	1	
24	74304713	Clevis	823517	1	
25	74303924	Center table (B)	819382b	1	
26	74314206	Washer	M16	2	
27	74304130	Support block	823520a	2	
28	74309803 (44446227)	Cap screw	M6 x 40	4	
29	74305312 (79572517)	Oilless metal bushing	MB0910DU	2	
30	74303602	Air cylinder	CDMU30-50-59L-XC1	1	
31	74315309	Elbow	PL6-PT 1/8"	2	
32	74304133	Hinge block	823525	4	
33	74304909	Cap screw	M8 x 40	8	
34	74301627 (38020507)	Cap screw	M8 x 35	4	
35	74300504 (10001517)	Nut	M8 (type 1)	4	
36	74305311 (55125127)	Oilless metal bushing	MB0808DU	2	
37	74314921	Oilless metal bushing	MB0808-15FDU	2	
38	74305320 (56127502)	Oilless metal washer	WC06DUN	2	
39	74304026	Chute drum	813169a	1	
40	74300606 (44235241)	Cap screw	M8 x 20	4	

Unit No. 14
Work chuter (option)

From serial No.03670013 and after.

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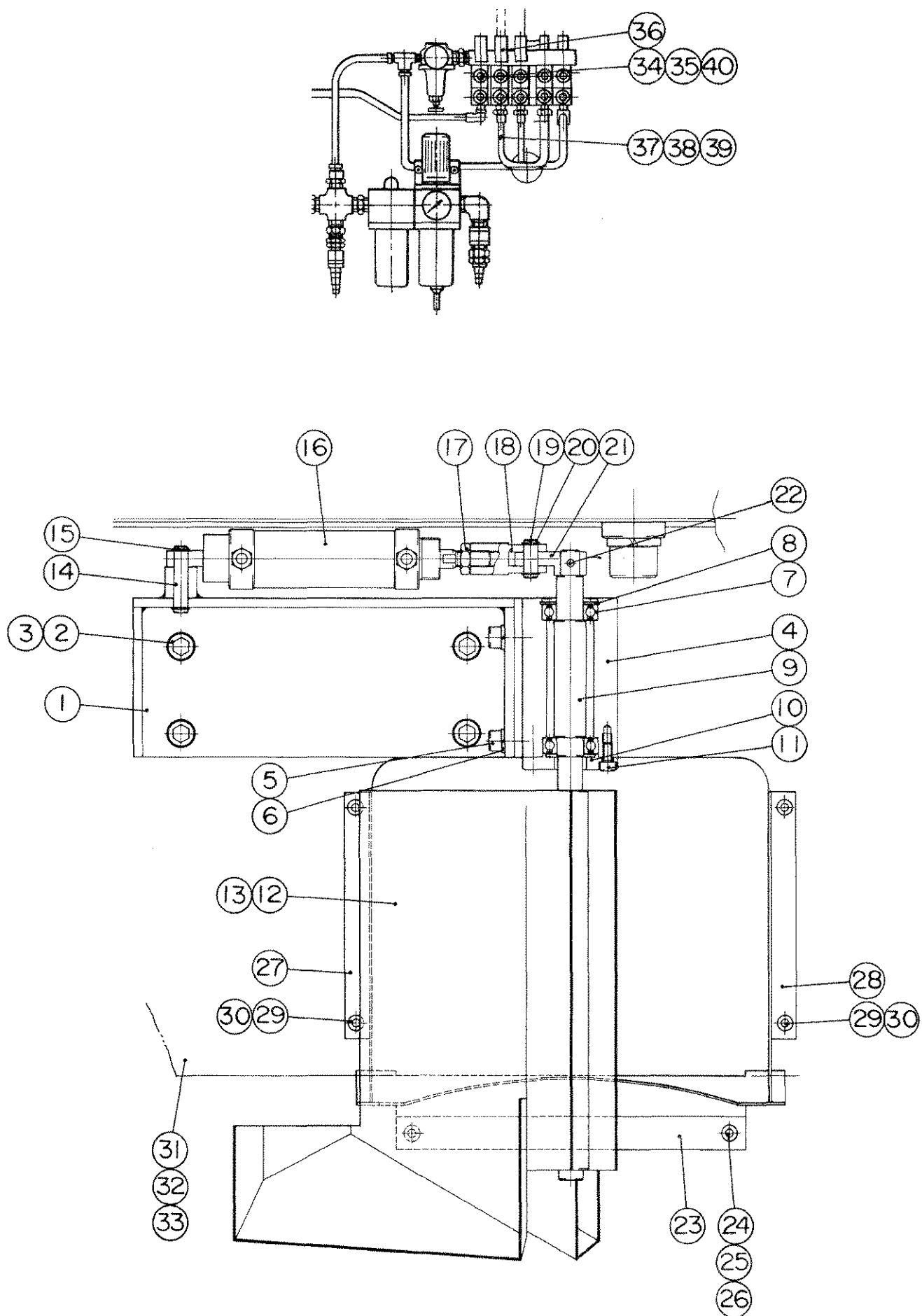


Unit No. 14

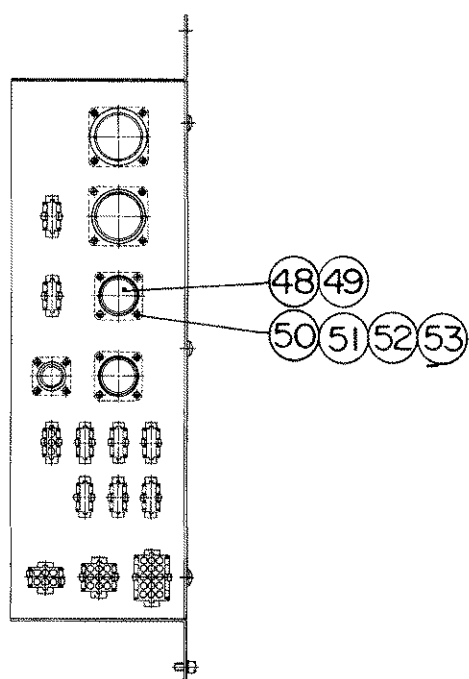
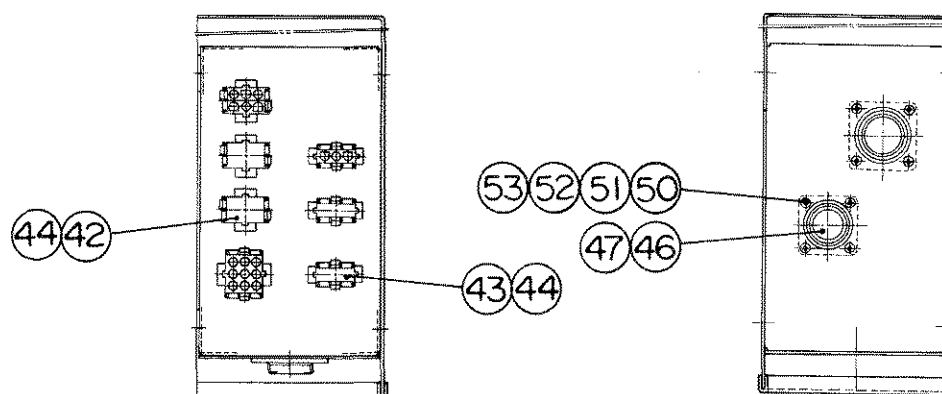
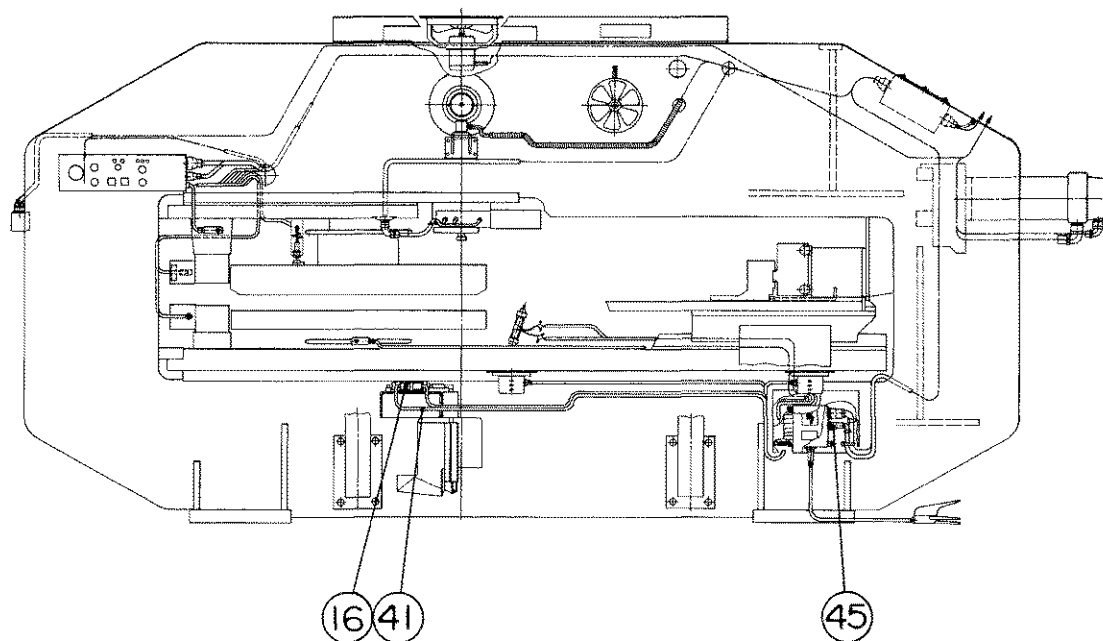
Work chuter (option)

From serial No.03670013 and after.

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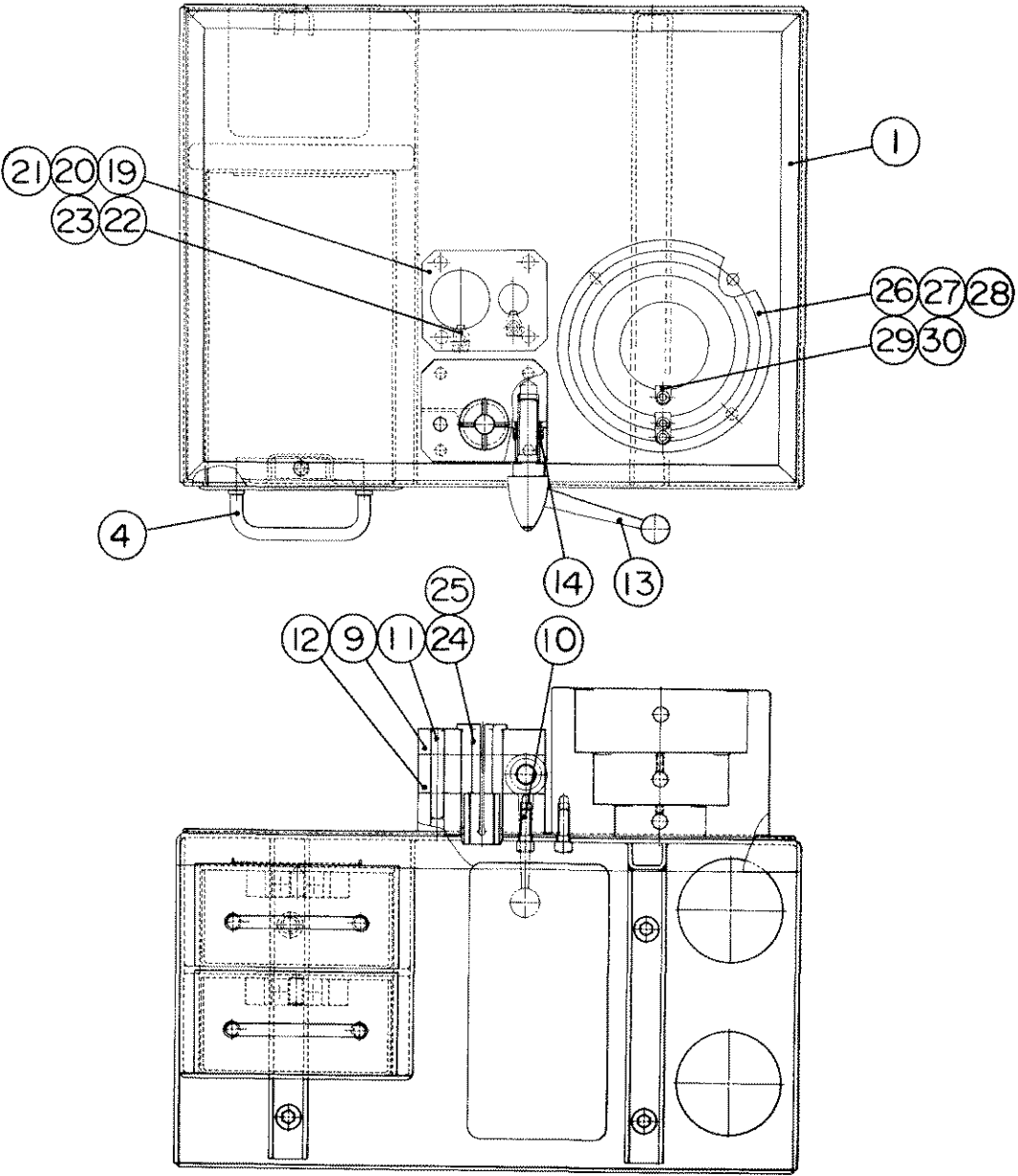
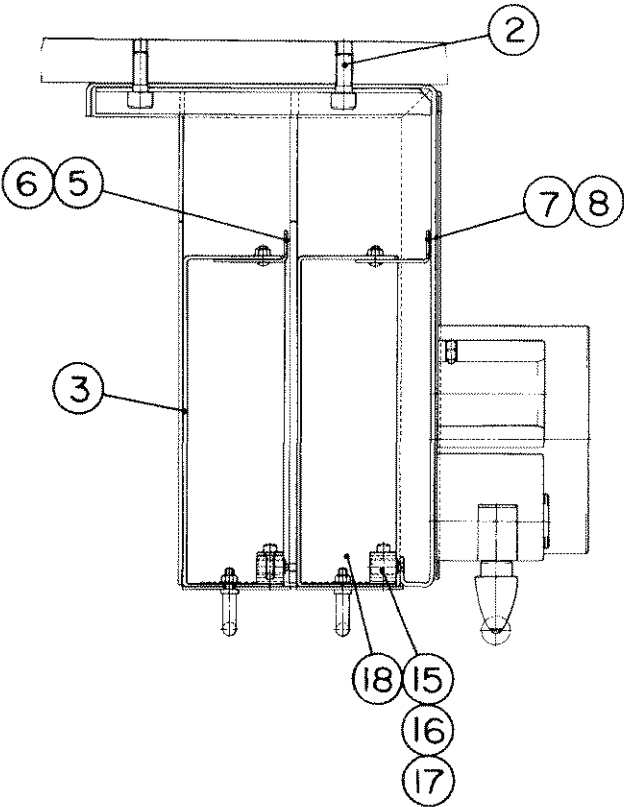


Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
1	74311514	Base bracket	819005a	1	
2	74302819 (44028616)	Cap screw	M12 x 30	4	
3	74301615 (44028619)	Spring washer	M12	4	
4	74311519	Housing	819006	1	
5	74302818	Cap screw	M8 x 30	4	
6	74300518 (10001521)	Spring washer	M8	4	
7	74311701	Ball bearing	#6003ZZ	2	
8	74311706 (44339810)	Snap ring	RTW-35	1	
9	74311603	Shaft	819007	1	
10	74311621	Bearing retainer	829527	1	
11	74302813	Cap screw	M6 x 12	4	
12	74311608	Work selector	819008a	1	
13	74311711	Spring pin	Φ6 x 24	2	
14	74311614	Hinge pin	819009	1	
15	74311705 (60158915)	Snap ring	STW-9	2	
16	74311801	Auto switch cylinder	CDMC Φ30 x 50st	1	
17	74311718	Rod end nut	NT-03	1	
18	74311721	Knuckle joint	Y-03	1	
19	74311724	Pin	1Y-02	1	
20	74311705 (60158915)	Snap ring	STW-9	2	
21	74311617	Link	819010	1	
22	74310525	Spring pin	Φ4 x 20	1	
23	74311625	Sub chute	829636a	1	
24	74302813	Cap screw	M6 x 12	2	
25	74300517 (44027928)	Spring washer	M6	2	
26	74302328 (44027930)	Washer	M6	2	
27	74311628	Angle (L)	829637b	1	
28	74311629	Angle (R)	829638b	1	
29	74302813	Cap screw	M6 x 12	4	
30	74300517 (44027928)	Spring washer	M6	4	
31	74311619	Cover	819011a	1	
32	74302813	Cap screw	M6 x 12	4	
33	74300517 (44027928)	Spring washer	M6	4	
34	74311906 (74162402)	Solenoid valve	5ER-8E	1	
35	74311927	Cap screw	M6 x 100	2	
36	74311911	Muffler	SM102	2	
37	74311810	Male connector	PC6-PT 1/4"	2	
38	74311824 (21104225)	Tube	N2-4-6 L=3 m	2	
39	74311828	Elbow	4E02-2604 1/4" Φ6	2	
40	74311509	Cable CO-3EX	6013175	1	



Unit No.16
Punch assembling jig (option)

From serial No.03670013 and after.

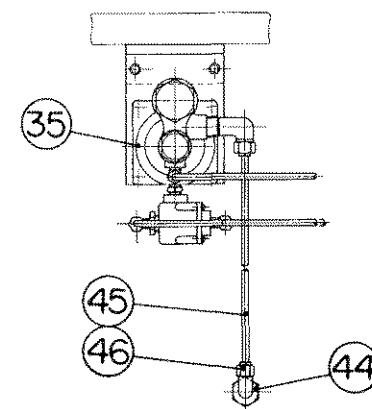
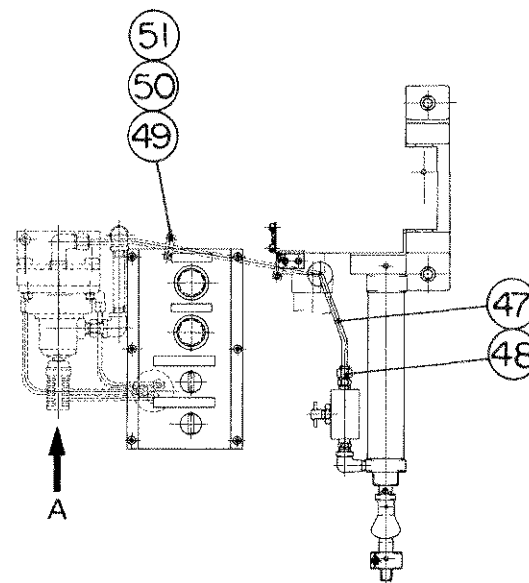
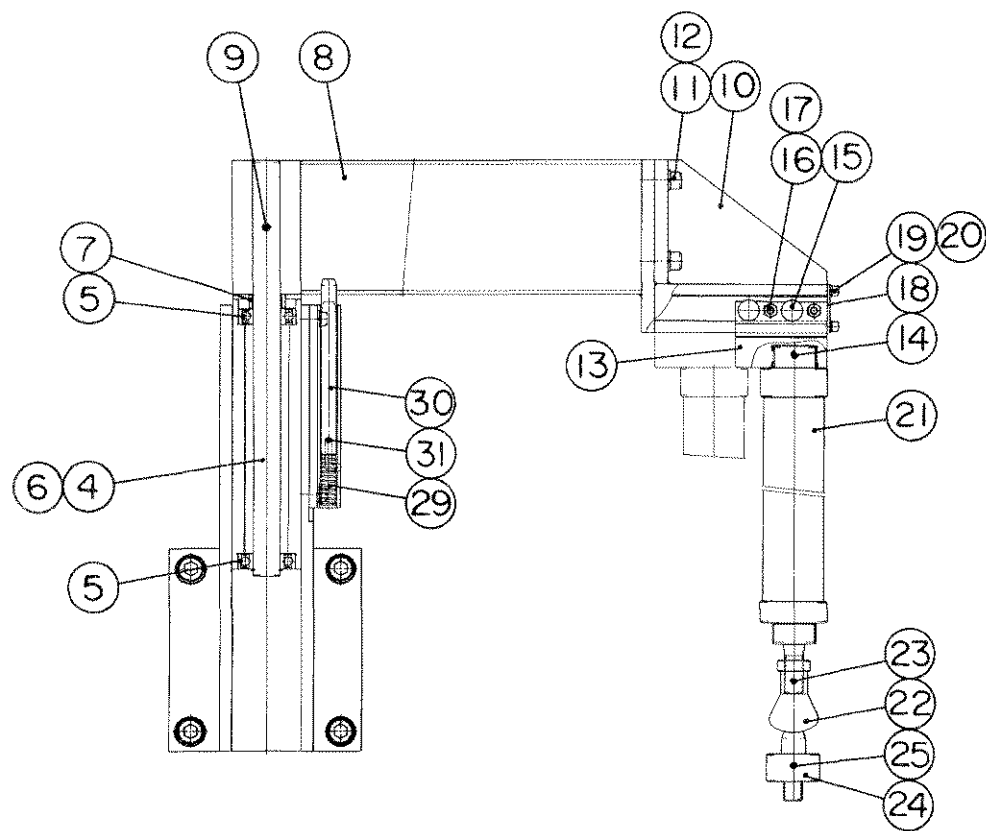
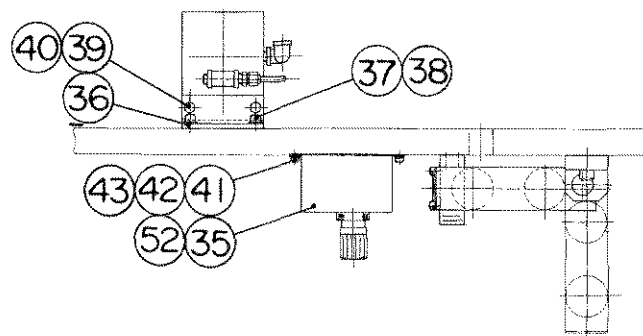
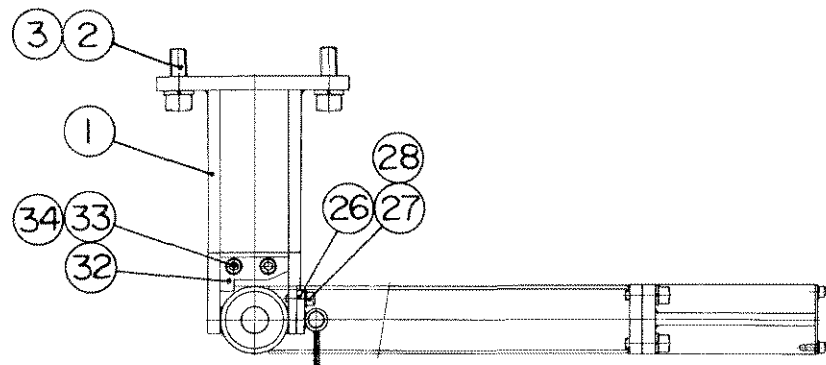


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Unit No.17

Tool balancer (option)

From serial No.03670013 and after.



ARROW "A"

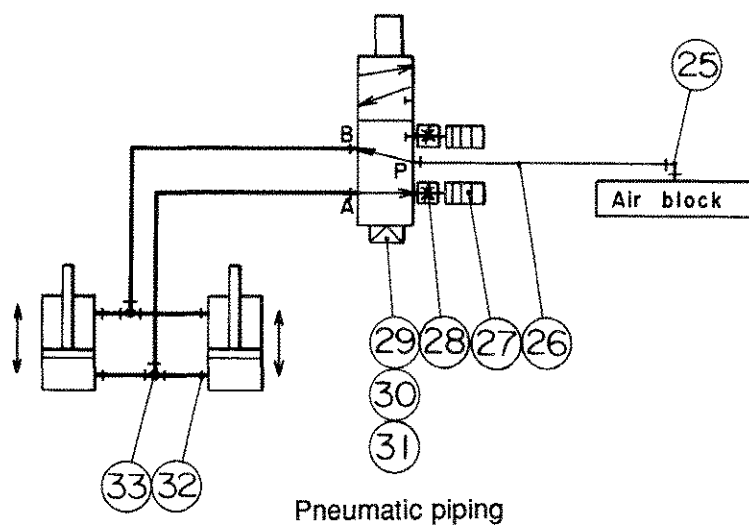
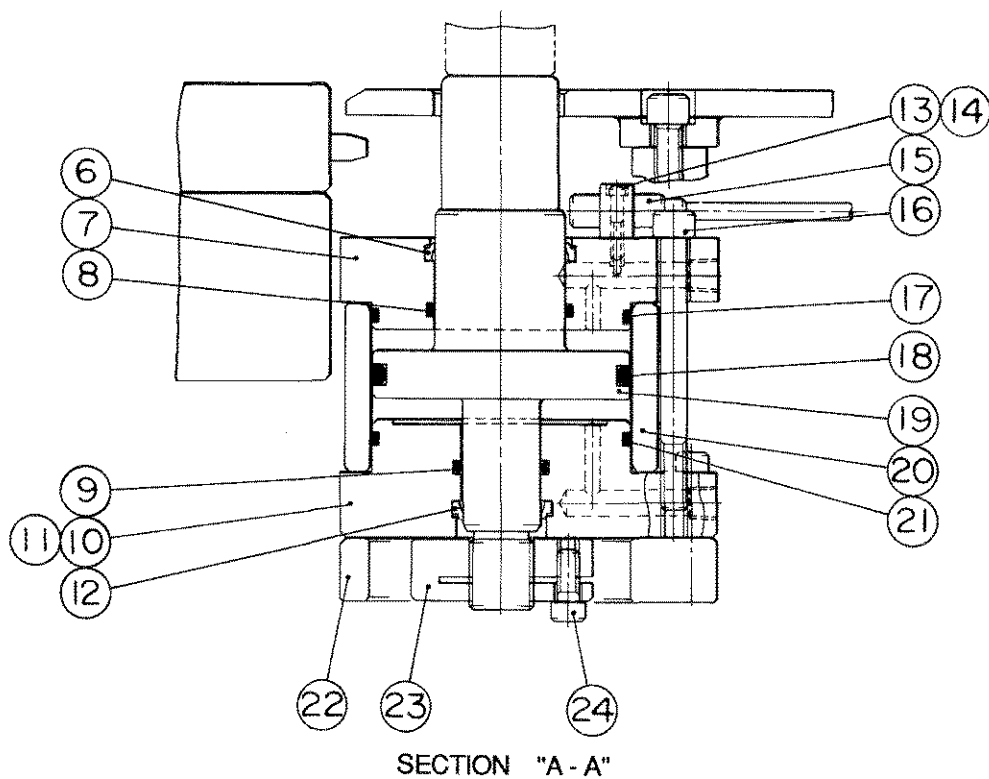
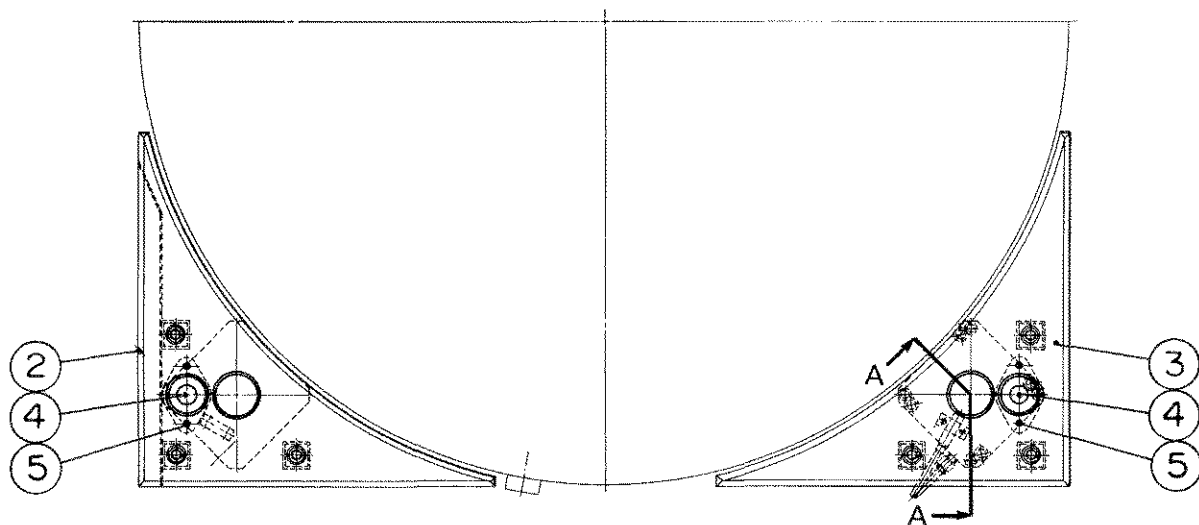
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
1	74309506	Arm bracket	819055a	1	
2	74302820	Cap screw	M12 x 35	4	
3	74301615 (44028619)	Spring washer	M12	4	
4	74309512	Bearing shaft	819057	1	
5	74310514	Ball bearing	#6905	2	
6	74310518 (10310821)	Snap ring	STW-25	1	
7	74309528	Collar	819062	1	
8	74309510	Arm	819391	1	
9	74310529 (54119320)	Spring pin	Φ6 x 50	1	
10	74309516	Roller rail	819058	1	
11	74300607 (21415514)	Cap screw	M8 x 25	4	
12	74300518 (10001521)	Spring washer	M8	4	
13	74309606	Cylinder holder	827209b	1	
14	74310528 (21102140)	Spring pin	Φ5 x 50	1	
15	74310428 (74165733)	Cam follower	KR16XLL	4	
16	74309931 (10310352)	Nut	M6 (type 1)	4	
17	74300517 (44027928)	Spring washer	M6	4	
18	74309609	Roller cover	827210	1	
19	74309802	Cap screw	M5 x 10 (unbrako)	4	
20	74300516 (44027927)	Spring washer	M5	4	
21	74310601	Air cylinder	SCDB Φ40 x 300st	1	
22	74310605 (74165732)	Link ball	RB1W-14	1	
23	74310525 (37014632)	Spring pin	Φ4 x 20	1	
24	74309111	Knob	480897	1	
25	74310527 (74314912)	Spring pin	Φ5 x 36	1	
26	74309522	Guide	819060	1	
27	74300604	Cap screw	M6 x 15	2	
28	74300517 (44027928)	Spring washer	M6	2	
29	74310609	Coil spring	Φ12 x Φ1 L= 50	1	
30	74309525	Fixed pin	819061	1	
31	74310526 (21102543)	Spring pin	Φ4 x 40	1	
32	74309521	Stopper	819392	1	
33	74304905	Cap screw	M6 x 35	2	
34	74300517 (44027928)	Spring washer	M6	2	
35	74309216	Balance valve unit	7931008	1	
36	74309108	Balance valve bracket	480893	1	
37	74300606 (44235241)	Cap screw	M8 x 20	2	
38	74300518 (10001521)	Spring washer	M8	2	
39	74310614 (44029703)	Bolt	M10 x 20	2	
40	74300519 (10001520)	Spring washer	M10	2	

Unit No. 17

Tool balancer (option)

From serial No.03670013 and after.

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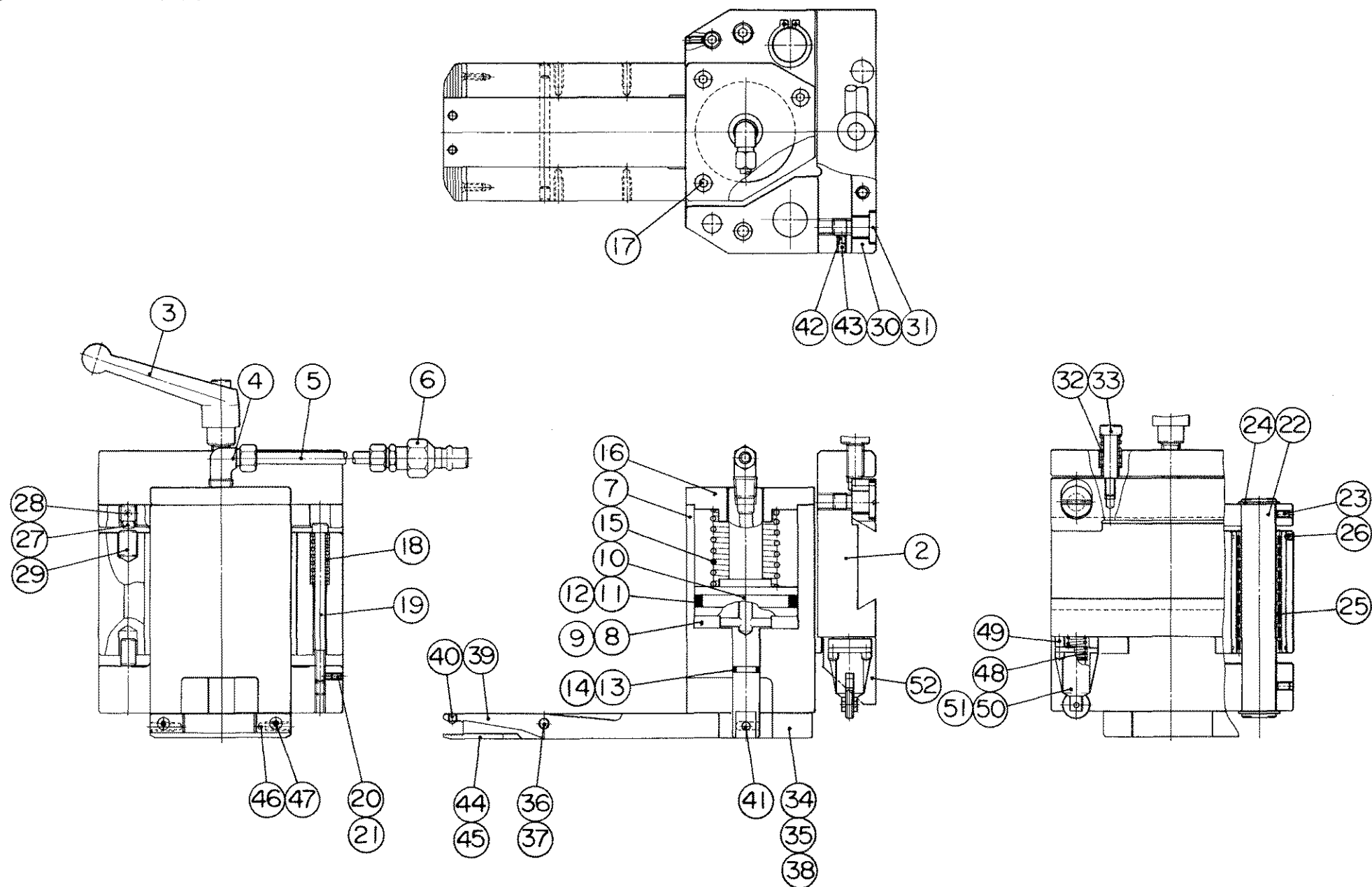
Unit No. **18**
Support cylinder

From serial No.03670013 and after.

Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
1	74317001	Support cylinder ass'y	819040c	1	
2	74317004	Repositioning plate (F)	819046b	1	
3	74317007	Repositioning plate (R)	819047a	1	
4	74317028 (74161611)	Free stroke bearing	C-8Y-A	2	
5	74302817 (73157630)	Cap screw	M8 x 15	4	
6	74317104	Dust seal	DSI 50586	2	
7	74317010	Cylinder cap	819042a	2	
8	74317108 (10316803)	O-ring	P-50	2	
9	74317109 (36110619)	O-ring	P-30	2	
10	74317013	Cylinder base	819041	2	
11	10443126	Cap screw	M8 x 65	8	
12	74317105	Dust seal	DSI 30386	2	
13	74317031	Setting bracket	Y92-312	2	
14	74314402	Cap screw	M4 x 25	4	
15	74317101 (36006413)	Proximity switch	TL-X2E2 cable 5 m	2	
16	74317131	Cap screw	M10 x 105	8	
17	74317110 (52106914)	O-ring	G-95	2	
18	74317111 (10316426)	O-ring	P-90	2	
19	74317016	Support rod	819043b	2	
20	74317019	Cylinder	826584	2	
21	74317110 (52106914)	O-ring	G-95	2	
22	74317022	Spacer	819045	2	
23	74317025	Adjusting nut	826586	2	
24	74300606 (44235241)	Cap screw	M8 x 20	2	
25	74317123	Elbow union	SLL-062	1	
26	74317128	Tube	TC-101 5 m	1	
27	74317120 (74162502)	Silencer	SA-8	2	
28	74317114 (76073528)	Exhaust throttle valve	ES-2	2	
29	74317117	Solenoid valve	5BR-02E	1	
30	74304903	Cap screw	M5 x 50	3	without chuter
31	10443004	Cap screw	M5 x 70	3	with chuter
32	74317124	Half union	SLH-082 $\phi 6 \times 1/4"$	8	
33	74317125	Y-union	SLY-0606	2	

Unit No.19
Hydraulic thin clamp (option)

From serial No.03670013 and after.



Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
1	74315801	Clamp ass'y	826190b	2	
2	74303511	Clamp housing	826181a	2	
3	74305232	Clamp lever	KR10 x 20	2	
4	74316002	Elbow	LF-2-SK-602	2	
5	74315830	Hydraulic hose	827577c	2	
6	74316006	Coupler	2HP (1/4")	2	
7	74315805	Cylinder	826191	2	
8	74316027	Steel ball	#3/16	2	
9	74304960	Set screw	M6 x 10 (unbrako)	2	
10	74315809	Piston	826077b	2	
11	74316011 (58352809)	O-ring	P-32	2	
12	74316016	Back-up ring	P-32-T2	2	
13	74316012 (10206606)	O-ring	P-22	2	
14	74316017	Back-up ring	P-22-T2	2	
15	74315813	Return spring	826047a	2	
16	74315817	Cylinder cap	826179	2	
17	74300604	Cap screw	M6 x 15	8	
18	74315814	Hanging spring	5594212	4	
19	74304955	Cap screw	M6 x 90	4	
20	74303816	Insert	806073	4	
21	74306405	Set screw (cup end)	M6 x 6	4	
22	74303526	Stroke shaft	826187	4	
23	74306405	Set screw (cup end)	M6 x 6	8	
24	74305214 (10001102)	Snap ring	STW-20	8	
25	74303528	Stroke bearing	6010232	4	
26	74305501 (74353901)	Set screw (cone end)	M4 x 4	4	
27	74306409	Set screw (dog end)	M10 x 17	4	
28	74306405	Set screw (cup end)	M6 x 6	4	
29	74303731	Cushion	806009	8	
30	74304608	Lock plate	816004a	2	
31	74304611	Pressure pin	816005b	4	
32	74304614	Release spring	816006	4	
33	74304022	Stripper bolt	STO8 x 25	4	
34	74315821	Clamp base	826193	2	
35	74300606 (44235241)	Cap screw	M8 x 20	8	
36	74316020	Straight pin	φ8 x 63	2	
37	10328210	Set screw	M10 x 10	2	
38	74316022	Straight pin (with screw)	φ10m6 x 32	4	
39	74315825	Clamper	826194	2	
40	10335405	Set screw (cup end)	M5 x 6	4	

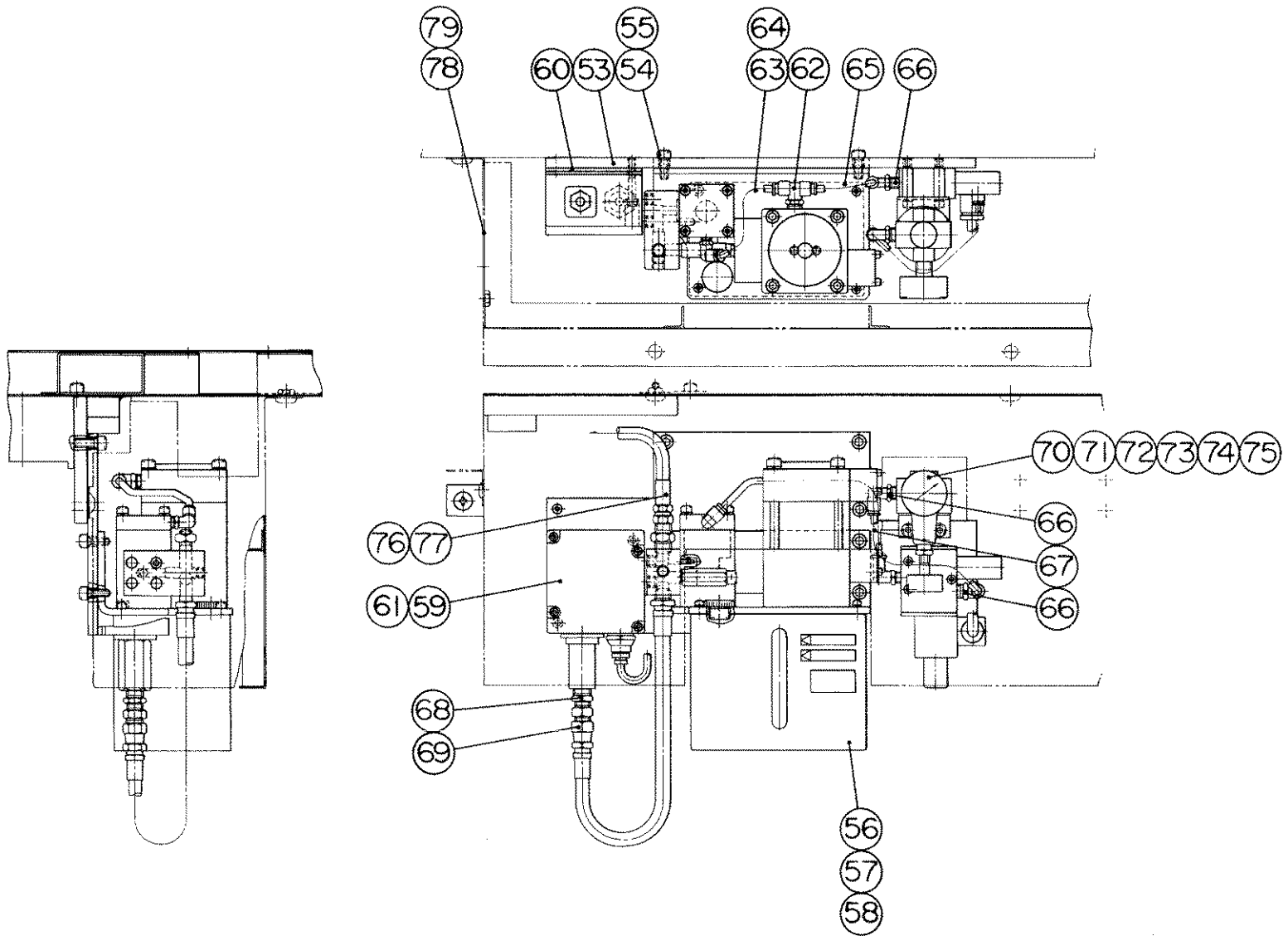
Unit No. **19**
Hydraulic thin clamp (option)

From serial No.03670013 and after.

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Unit No.19
Hydraulic thin clamp (option)

From serial No.03670013 and after.

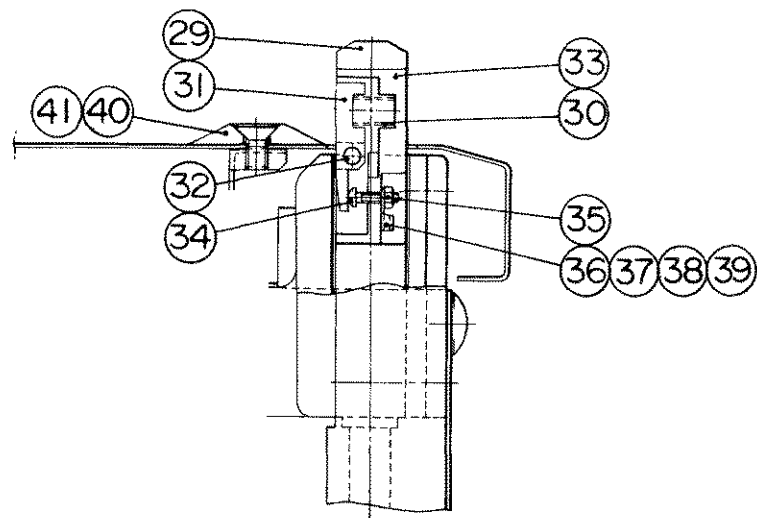
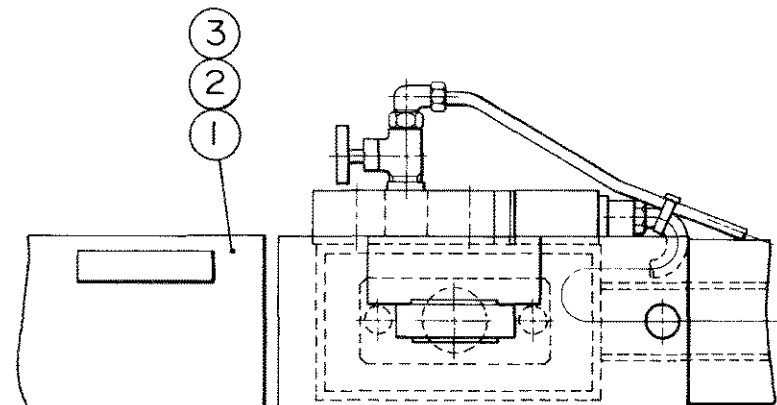
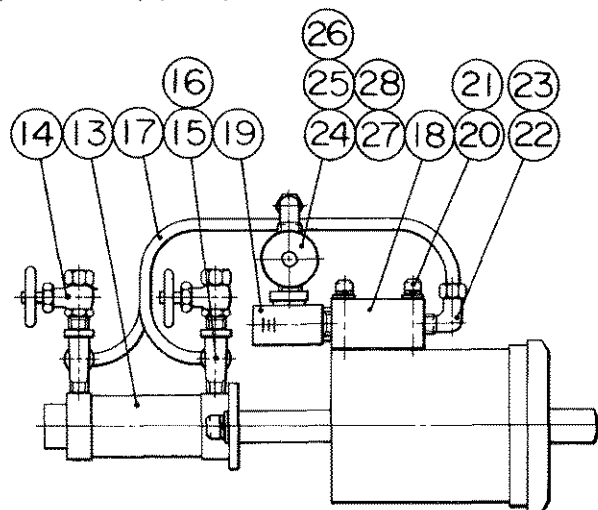


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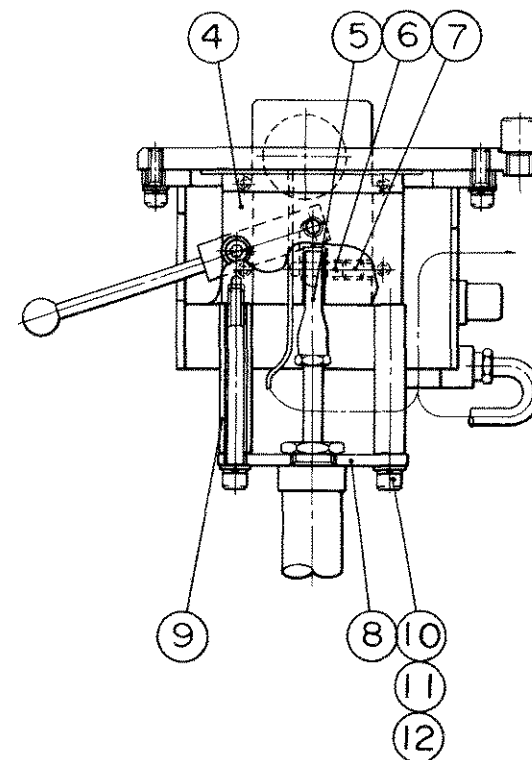
Unit No.20

Work positioning detector (option)

From serial No.03670013 and after.



X-axis sensor

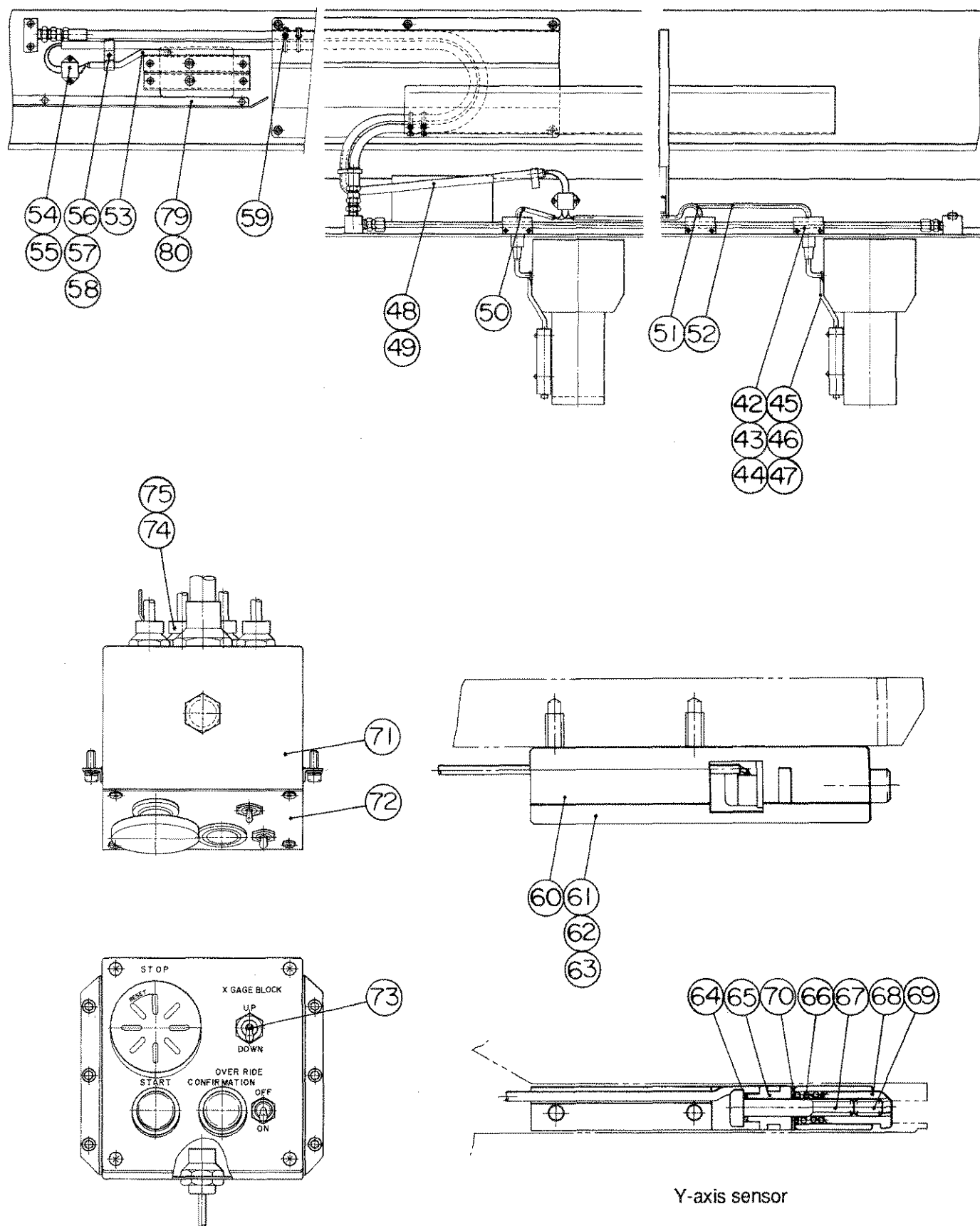


Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
1	74316402	Filler table	819022	1	
2	74300604	Cap screw	M6 x 15	5	
3	74302328 (44027930)	Washer	M6	5	
4	74316406	Guide bracket	813692	1	
5	74316412	Connecting rod	813217a	1	
6	74316623	Stright pin	Φ8 x 32	1	
7	73111137	Set screw (flat end)	M10 x 12	1	
8	74316407	Cylinder bracket	829173	1	
9	74316416	Collar	829172	2	
10	10443068	Cap screw	M10 x 110	2	
11	74300512	Washer	M10	2	
12	74300519 (10001520)	Spring washer	M10	2	
13	74316702	Air cylinder	CDMB30-30-59LS	1	
14	74316707	Miniature valve	VA-2 MV-601	2	
15	74316802	Male-female tee	1/8"	2	
16	74316808	Male connector	CIN-1/4"-PT 1/8"	2	
17	74310212	Tube	N2-1-1/4" 0.7 m	2	
18	74316713 (74162402)	Solenoid valve	5ER-8E	1	
19	74316717	Exhaust valve	40481-04	2	
20	10310362	Cap screw	M6 x 45	2	
21	74300517 (44027928)	Spring washer	M6	2	
22	74310033	Male elbow	LIN-1/4"-PT 1/4"	1	
23	74316814	Elbow	4E32-0404	1	
24	74316708	Miniature valve	VA-2 MV-602	1	
25	74310033	Male elbow	LIN-1/4"-PT 1/4"	2	
26	74310212	Tube	N2-1-1/4" 3.6 m	1	
27	74309825 (74162615)	Male-female elbow	1/4"	1	
28	74307821	Band	CV-150	1	
29	74316420	Stopper (with sensor)	829386	1	
30	74316424 (74347230)	Spring	829622a	1	
31	74316428 (74347501)	X-axis sensor	829974	1	
32	74316502 (74347511)	Straight pin	829975	1	
33	74316507	Insulator	829976b	1	
34	74316632	Slotted head machine screw	M3 x 12	1	
35	74353402	Nut	M3 (type 3)	1	
36	74316820	Cable	KIV 1.25 mm ² 2 m	1	
37	74307725	Lug terminal	1.25-4	1	
38	74316628	Marker tube	1.25 mm ² 10 mm	1	
39	74308126 (36004615)	Code lock	NC-1	1	
40	74316512 (74347306)	Base	819255a	3	

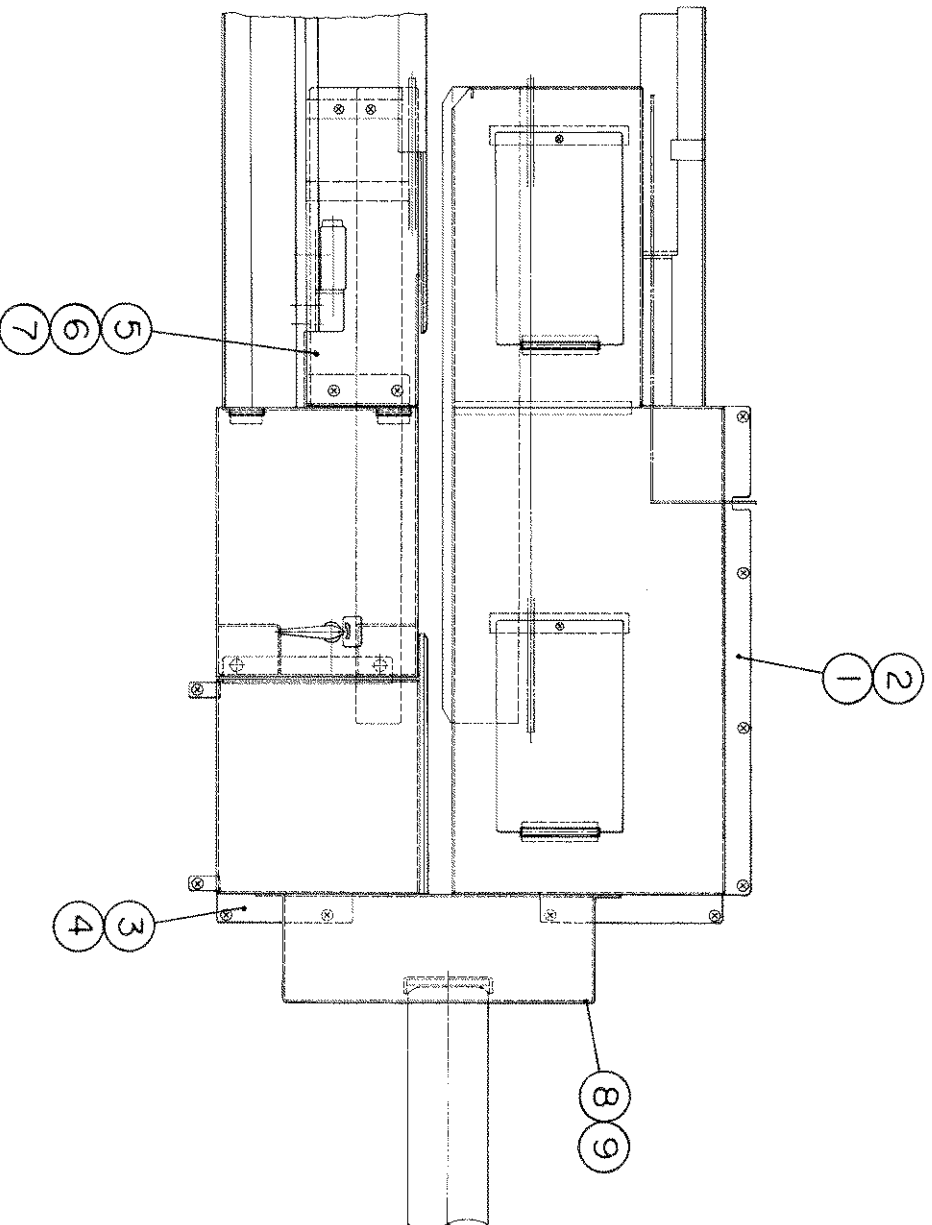
Unit No. **20**
Work positioning detector (option)

From serial No.03670013 and after.

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Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
42	74316602 (74347421)	Block	829171a	3	
43	74300602	Cap screw	M4 x 35	6	
44	74316605	Receptacle	7930044	3	
45	74316821	Cable	KIV 1.25 mm ² L= 100	2	
46	74316831	Tube	UH-30-06 L= 100	2	
47	74316832	Spiral tube	1000L	2	
48	74316830	Tube	UH-30-12 L= 1850	1	
49	74316822	Cable	KIV 1.25 mm ² L=1950	2	
50	74316823	Cable	0.75 mm ² L= 350	1	
51	74316824	Cable	0.75 mm ² L=1050	1	
52	74316825	Cable	0.75 mm ² L=1250	1	
53	74316826	Cable	1.25 mm ² L=13000	1	
54	74316727	Terminal block	KS-2	2	
55	10364023	Pan head machine screw	M3 x 12	4	
56	74316731	Saddle	PZ0112	1	
57	74300604	Cap screw	M6 x 15	1	
58	74300517 (44027928)	Spring washer	M6	1	
59	74310420	Band	CV-175	4	
60	74316517 (74347416)	Sensor holder (L)	826222	2	
61	74316518 (74347406)	Sensor cover (L)	826223	2	
62	74316633	Button head socket screw	M5 x 30	4	
63	74300516 (44027927)	Spring washer	M5	4	
64	74316522 (74347426)	Terminal plate	829968a	2	
65	74316508 (74347218)	Insulator	809813	2	
66	74316425 (74347226)	Sensor spring	809814	2	
67	74316523 (74347430)	Terminal screw	829971	2	
68	74316429 (74347506)	Y-axis sensor	826226	2	
69	10342302	Set screw (flat end)	M5 x 8	2	
70	74316513 (74347213)	Spacer	809809	2	
71	74316526	Control box	819354	1	
72	74316527 (74307315)	Control panel	818805	1	
73	74308612	Toggle switch	S-1001	1	
74	74308126 (36004615)	Code lock	NC-1	1	
75	74316608	Cable (CR-7EX)	819356	1	
76	74316531	Junction box (T)	819013	1	
77	74308126 (36004615)	Code lock	NC-1	1	
78	74316723	Grommet	C30SG-26A	1	
79	74316613	Hose guide	817519a	1	
80	74302812	Cap screw	M6 x 10	3	



Unit No. 21

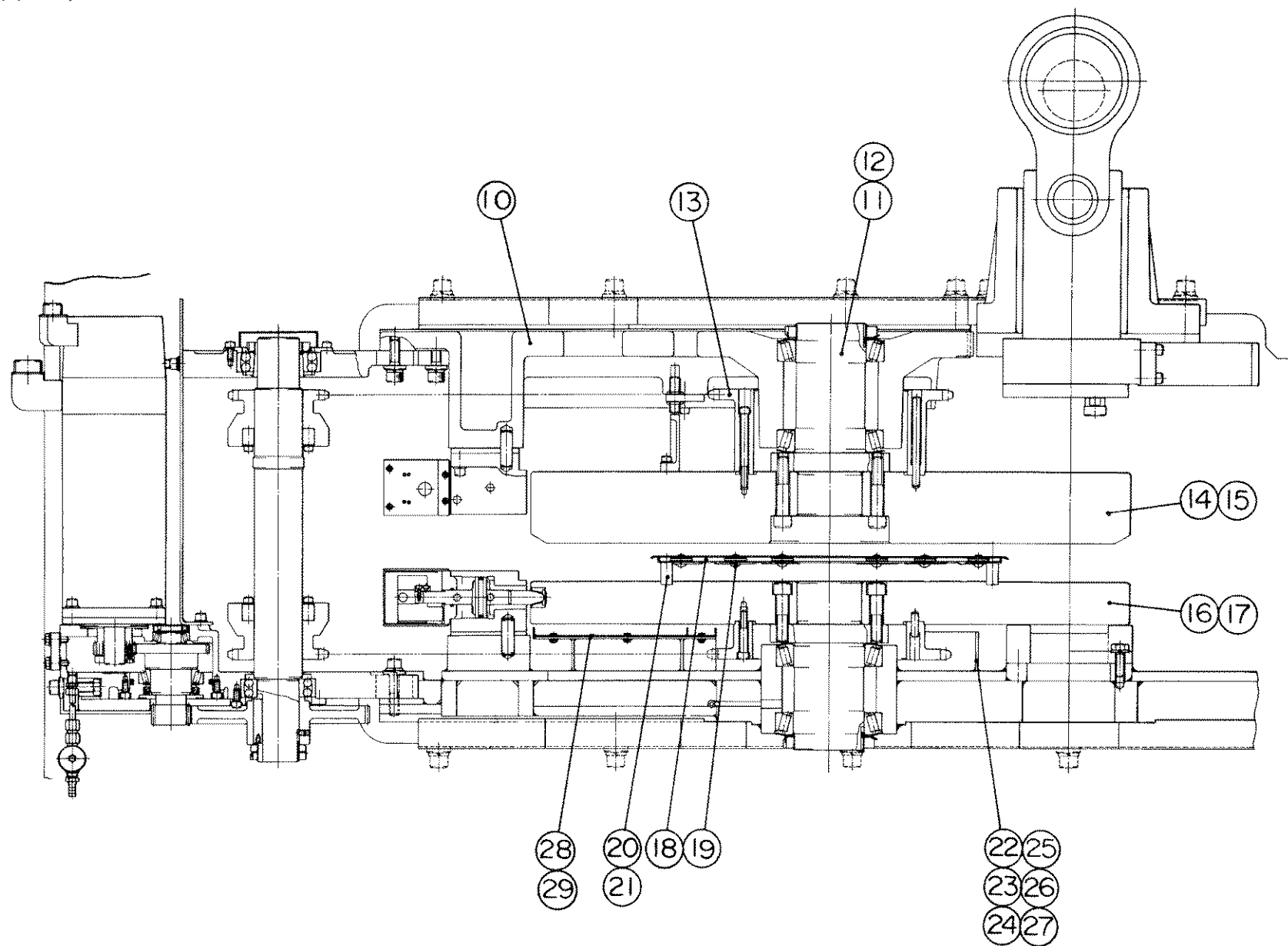
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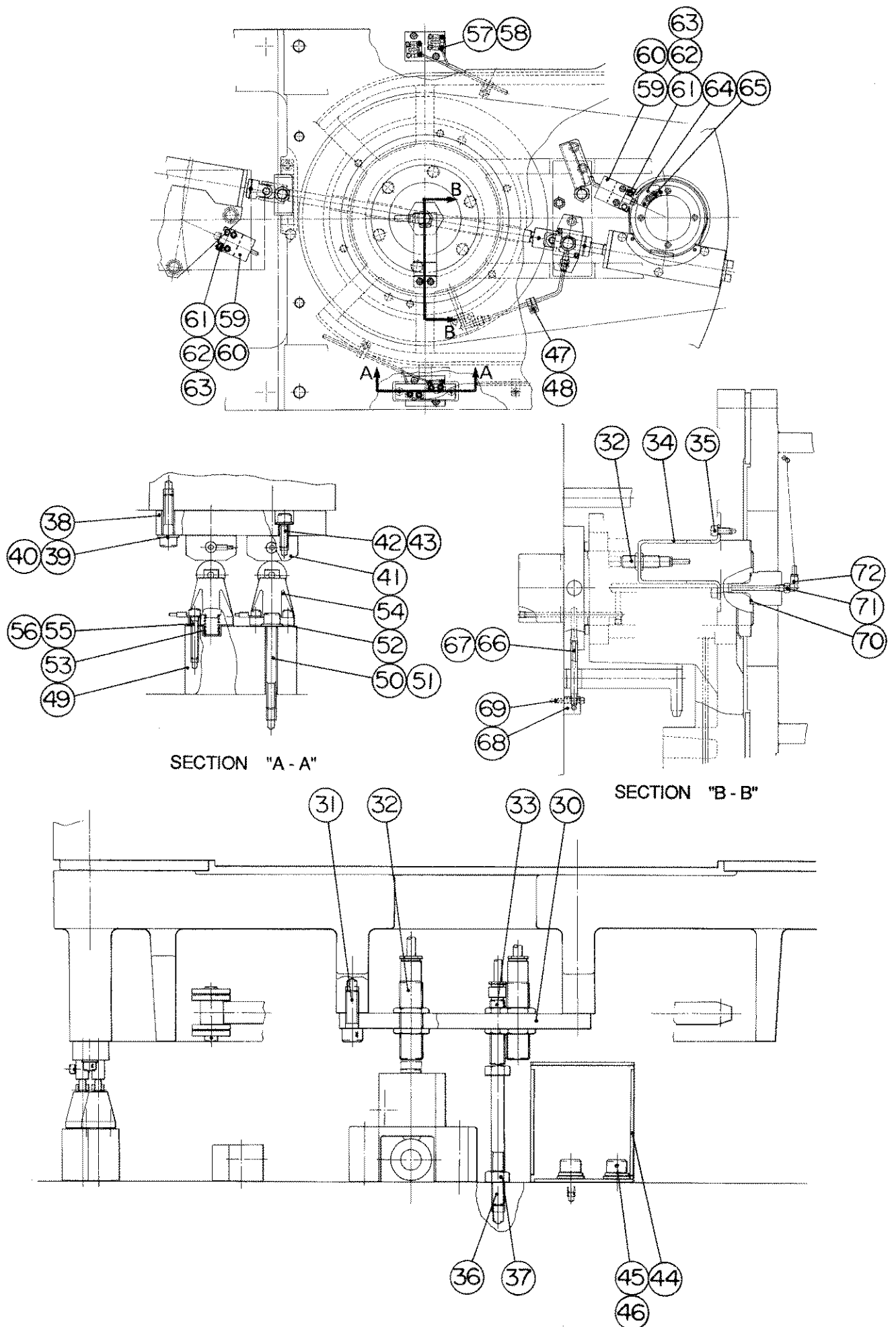
From serial No.03670013 and after.

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Unit No.21
Auto-index (option)

From serial No.03670013 and after.





Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
30	74312805	Proximity switch bracket (A)	811847a	1	
31	74302829	Cap screw	M10 x 30	2	
32	74312405	Proximity switch	7927774-6a	2	
33	74312411	Proximity switch	TL-X2F1-7 cable 5 m	1	
34	74312806	Switch bracket (B)	811848	1	
35	74301628 (44028704)	Cap screw	M10 x 20	2	
36	74314515	Bolt (all thread)	M10 x 100	2	
37	74314521 (10001516)	Nut	M10 type 1	2	
38	74313212	Dog bracket	811849	1	
39	74301626 (75168508)	Cap screw	M6 x 25	2	
40	74300517 (44027928)	Spring washer	M6	2	
41	74313503	Dog (B)	829437a	2	
42	74314403 (75168220)	Cap screw	M5 x 15	4	
43	74300516 (44027927)	Spring washer	M5	4	
44	74313114	Turret origin dog	811829a	1	
45	74314414	Cap screw	M10 x 15	2	
46	74300512	Washer	M10	2	
47	74310307 (44027304)	Saddle	CH-6	4	
48	74300604	Cap screw	M6 x 15	4	
49	74313215	Head base	811860a	2	
50	74314409	Cap screw	M6 x 50	4	
51	74302328 (44027930)	Washer	M6	4	
52	74313707	Copper plate	822235	4	
53	74313701	Spring	822231a	4	
54	74312507	Head	7932020	1	
55	74314402	Cap screw	M4 x 25	16	
56	74300515 (44027327)	Spring washer	M4	16	
57	74314529	Lug terminal	0.75 mm ² ϕ 4	6	
58	74314401	Cap screw	M4 x 10	2	
59	74314927	Limit switch	14CE31-1	2	
60	74314404	Cap screw	M5 x 20	4	
61	74313219	L.S.base	811852	2	
62	74314409	Cap screw	M6 x 50	4	
63	74302328 (44027930)	Washer	M6	4	
64	74314318	Switch dog	828987c	2	
65	74300624	Button head machine screw	M6 x 15	4	
66	74313303	Pipe	811854	1	
67	74314820	O-ring	S-8	1	
68	74313302	Piping block	811853	1	
69	74309803 (44446227)	Cap screw	M6 x 40	2	

Unit No. 21

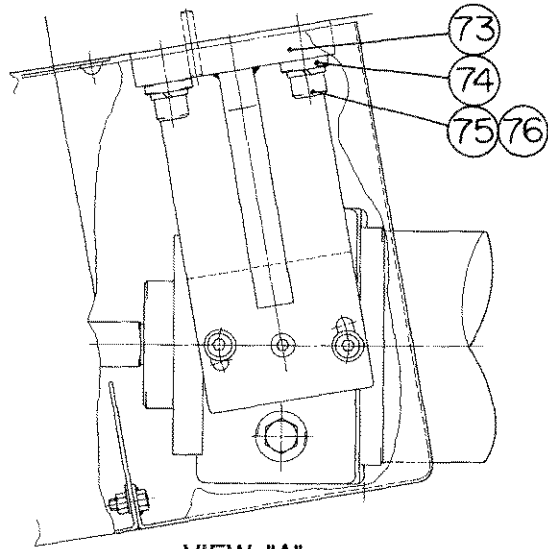
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From serial No.03670013 and after.

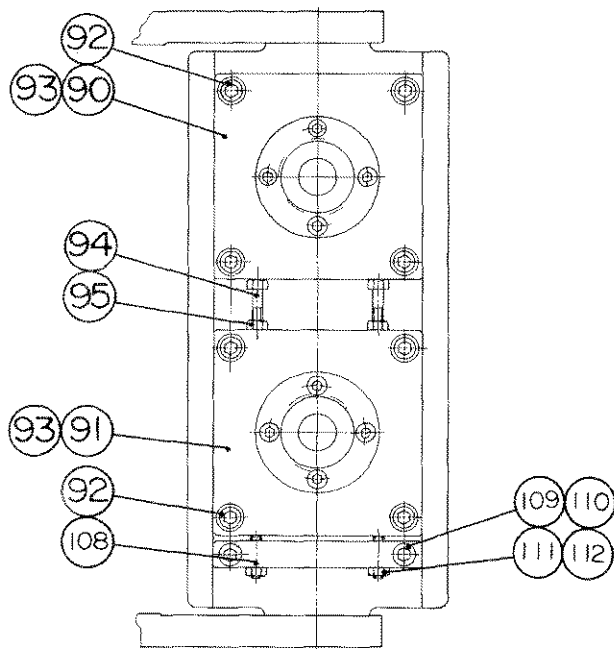
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Unit No.21
Auto-index (option)

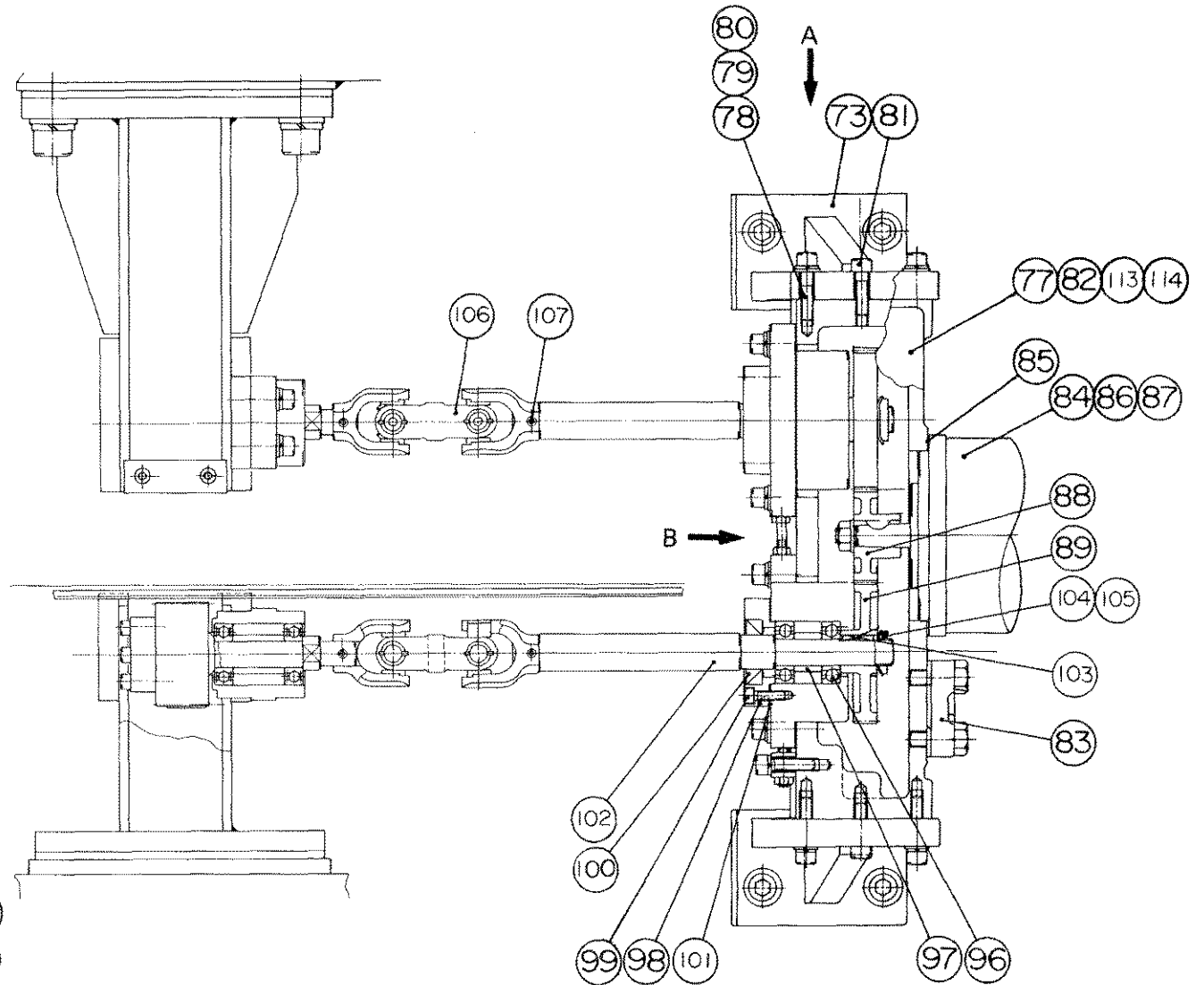
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VIEW "A"



VIEW "B"

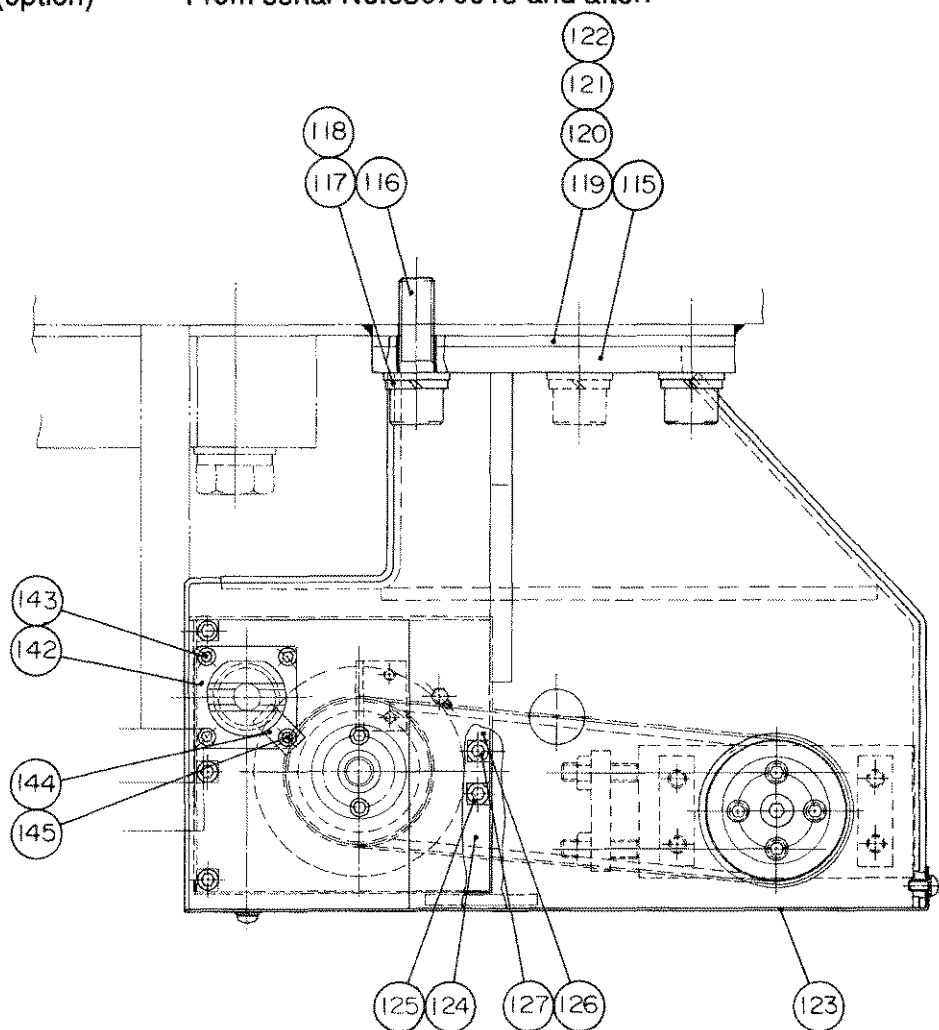


Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
73	74313609	Box holder	811580	2	
74	74314203	Washer	827014b	4	
75	74304917	Cap screw	M12 x 40	4	
76	74301615 (44028619)	Spring washer	M12	4	
77	74313525	Gear box	821958c	1	
78	74301627	Cap screw	M8 x 35	4	
79	74300518 (10001521)	Spring washer	M8	4	
80	74300511	Washer	M8	4	
81	74302818	Cap screw	M8 x 30	2	
82	74314914 (21221006)	Spring pin	Φ6 L=28	1	
83	74312413	Oil level gauge	7931002	1	
84	74315106	NC servo motor	6L with nut and key	1	
85	74313726 (74058990)	Motor packing	822378	1	
86	74302818	Cap screw	M8 x 30	4	
87	74315111	Seal washer	SM-8	4	
88	74313713	Drive gear	822365	1	
89	74313714	Driven gear	822366	2	
90	74313518	Bearing holder (A)	822367a	1	
91	74313519	Bearing holder (B)	822368a	1	
92	74302818	Cap screw	M8 x 30	8	
93	74313717	Holder shim	822369a	2	
94	74314514	Bolt	M6 x 35	2	
95	74300503 (10310352)	Nut	M6	2	
96	74312422 (11130320)	Ball bearing	#6203	4	
97	74313720	Inner ring collar	822371	2	
98	74312631	Bearing retainer	822372b	2	
99	74302815	Cap screw	M6 x 20	8	
100	74314725	Oil seal	Φ42 x Φ22 x 11w AC1148A0	2	
101	74313422	Shim	822373	2	
102	74313514 (74529315)	Drive spindle (B)	821953	2	
103	74313508	Key	5 x 5 x 19	2	
104	74313711 (44132503)	Crown nut	AN03	2	
105	74314905 (44132502)	Crown washer	AW03	2	
106	74312502	Double joint	7932018b	2	
107	74314913	Spring pin	Φ6 L=22	4	
108	74313723	Holder stopper	822374	1	
109	74302818	Cap screw	M8 x 30	2	
110	74300518 (10001521)	Spring washer	M8	2	
111	74314810 (10364041)	Set screw (flat end)	M6 x 25	2	
112	74300503 (10310352)	Nut	M6	2	

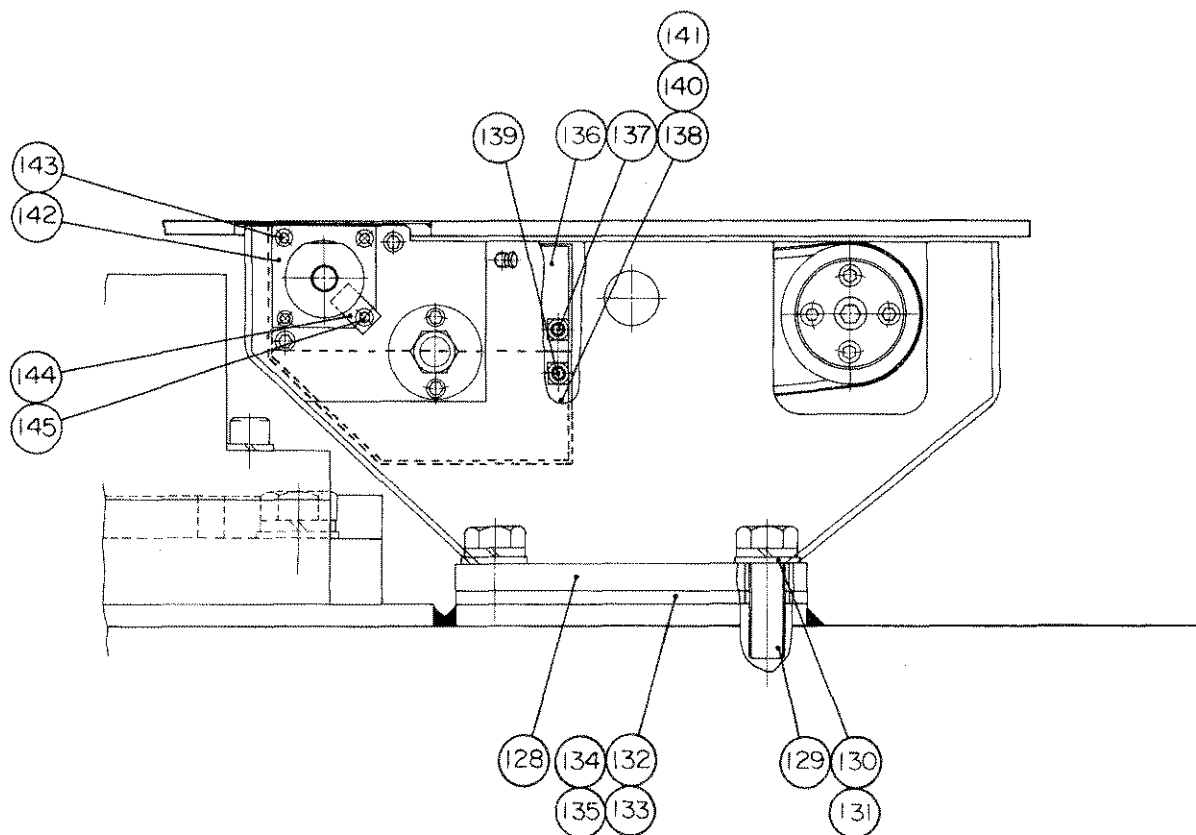
Unit No. **21**
Auto-index (option)

From serial No.03670013 and after.

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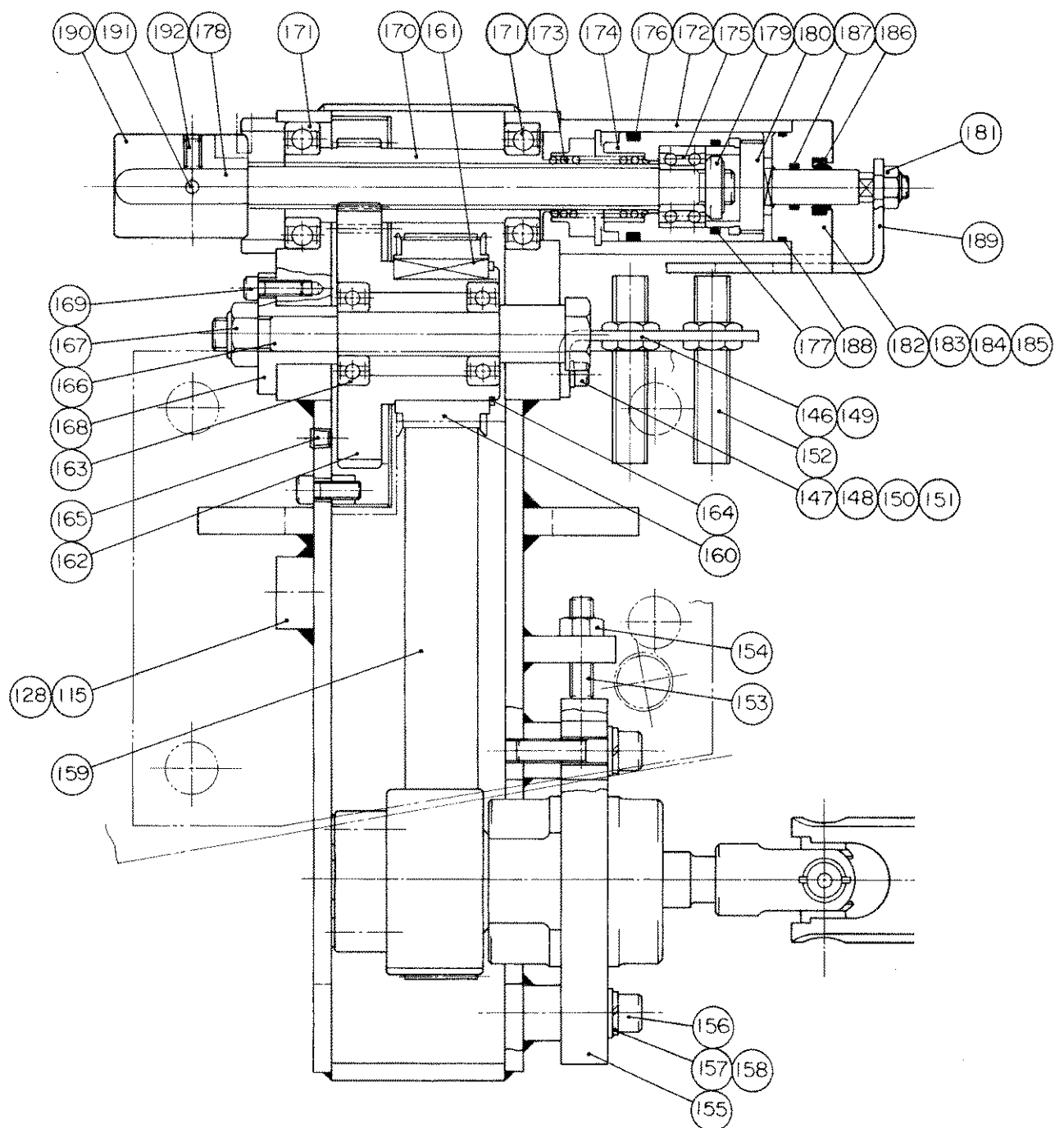
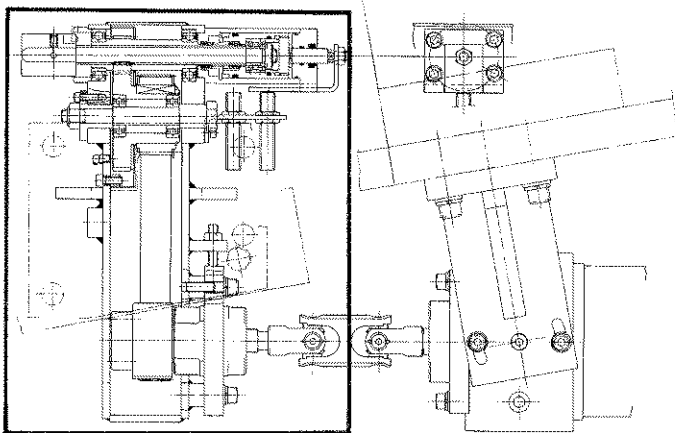


UPPER



LOWER

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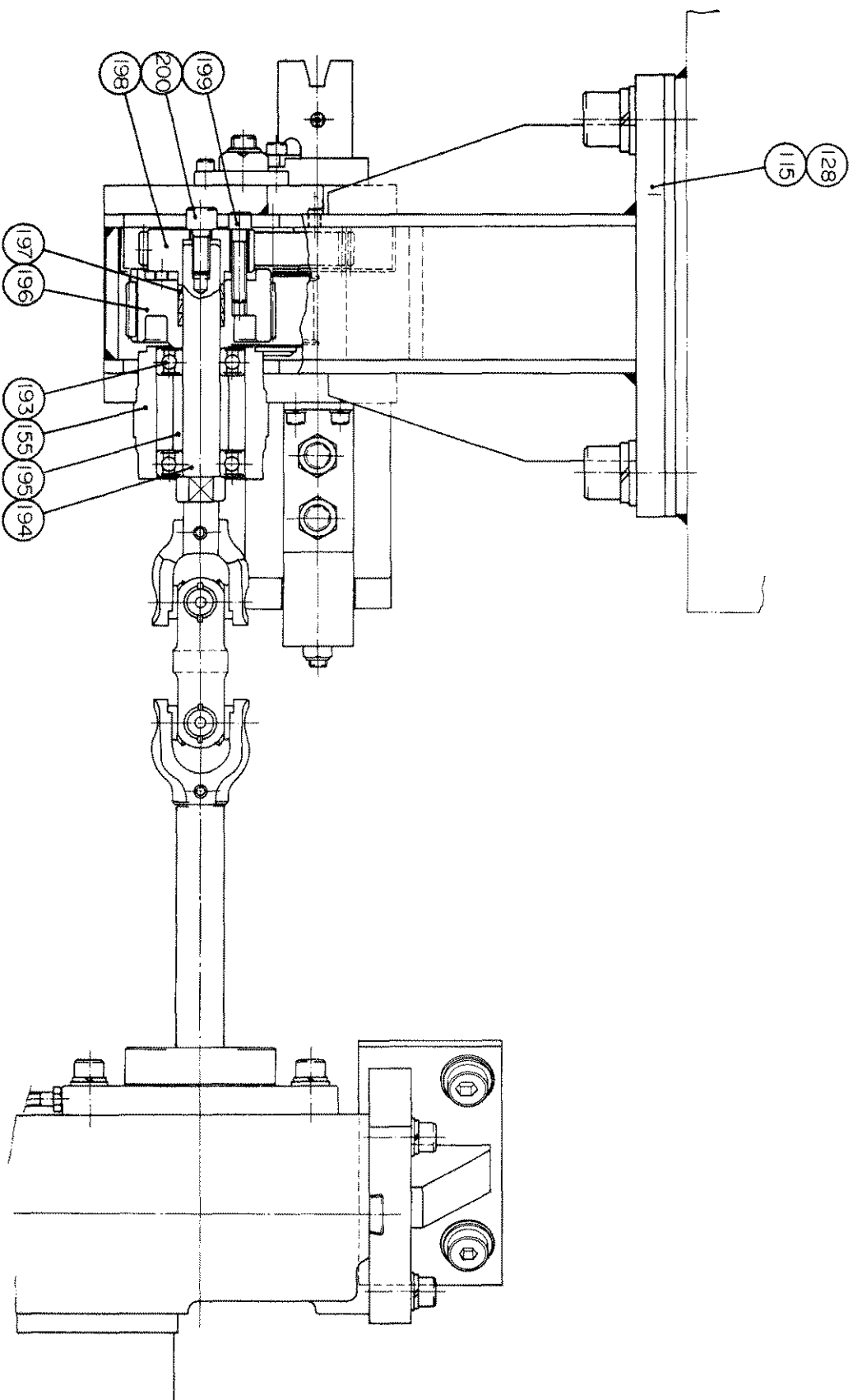


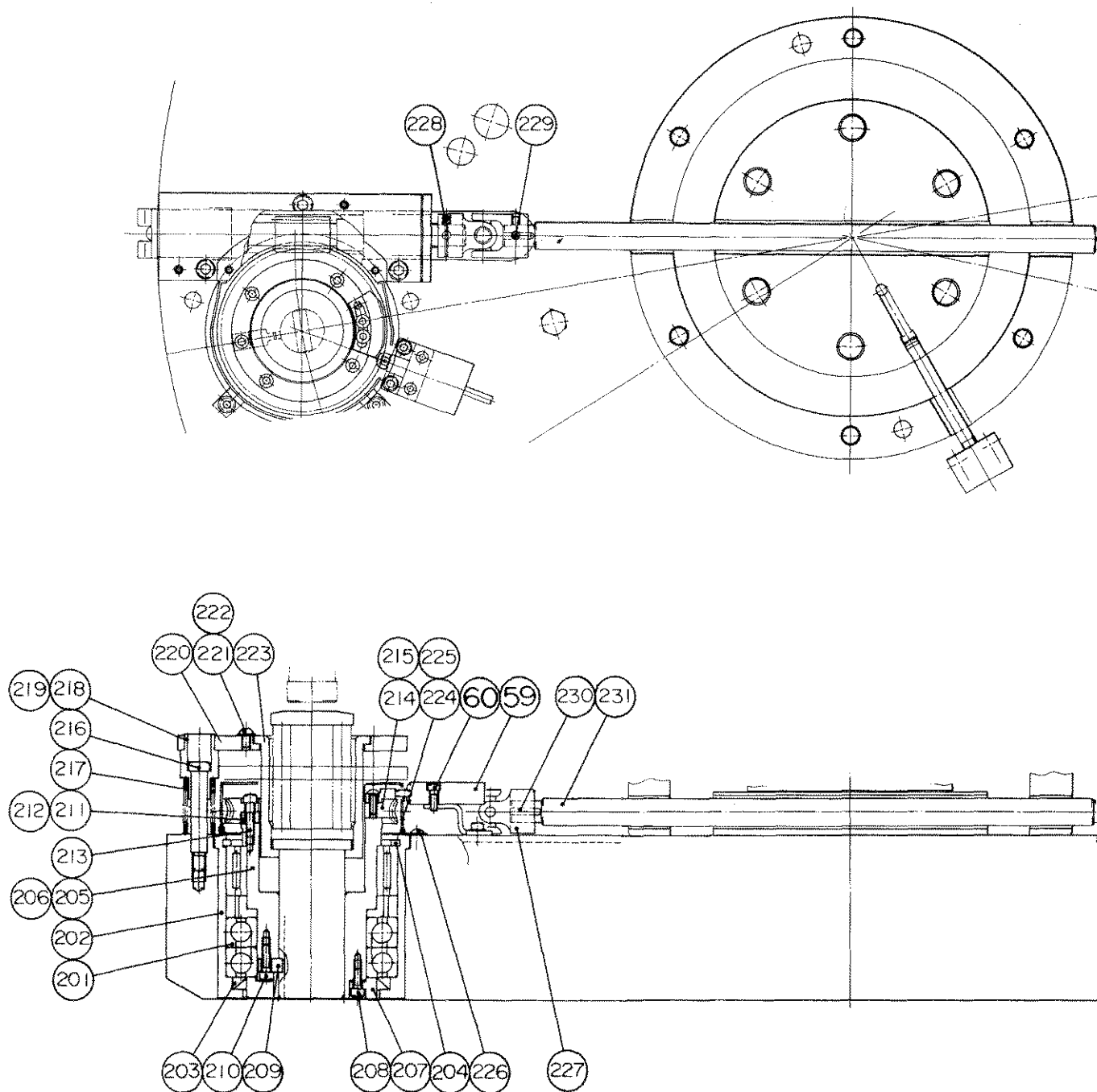
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
146	74312803	Proximity switch bracket (upper)	821976	1	
147	74300604	Cap screw	M6 x 15	2	
148	74300517 (44027928)	Spring washer	M6	2	
149	74312804	Proximity switch bracket	802252	1	
150	74314403 (75168220)	Cap screw	M5x 15	2	
151	74300516 (44027927)	Spring washer	M5	2	
152	74312411	Proximity switch	TL-X2F1-7 cable 5 m	4	
153	10363010	Set screw (flat end)	M8 x 40	4	
154	74300504 (10001517)	Nut	M8	4	
155	74313516	Bearing holder	821957a	2	
156	74301627 (38020507)	Cap screw	M8 x 35	8	
157	74300518 (10001521)	Spring washer	M8	8	
158	74300511	Washer	M8	8	
159	74314701 (74058987)	Timing belt	230-H-100	2	
160	74313730	Pulley (driven)	822390	2	
161	74313509	Key	7 x 7 x 32	2	
162	74313808	Middle gear	822391b	2	
163	74312421 (61163323)	Ball bearing	#6202ZZ	4	
164	74314619 (10002614)	Snap ring	STW-45	2	
165	74301701	Plug	PT 1/8"	2	
166	74313601	Bearing shaft	821959	2	
167	74314706	U-nut	M12	2	
168	74313604	Shaft support	821960	2	
169	74314403 (75168220)	Cap screw	M5 x 15	4	
170	74314130	Driven middle gear	822491b	2	
171	74312420 (74058976)	Ball bearing	#60/22ZZ	4	
172	74313617	P.P. cylinder	822079b	2	
173	74313619	P.P. spring	822080	2	
174	74313622 (74058552)	P.P. piston	822081	2	
175	74312424 (74058967)	Ball bearing	#7001DB	2	
176	74314825 (58352809)	O-ring	P-32	2	
177	74314821 (36181565)	O-ring	S-28	2	
178	74313614	P.P. spline	822077c	2	
179	74314709 (74058979)	Fine U-nut	M12	2	
180	74313626	P.P. plunger	821974	2	
181	74314705	U-nut	M8	2	
182	74313631	P.P. cylinder cover (lower)	821977	1	
183	74313630	P.P. cylinder cover (upper)	821972	1	
184	74314413 (10310377)	Cap screw	M8 x 100	4	
185	74300606 (44235241)	Cap screw	M8 x 20	4	

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Unit No.21
Auto-index (option)

From serial No.03670013 and after.



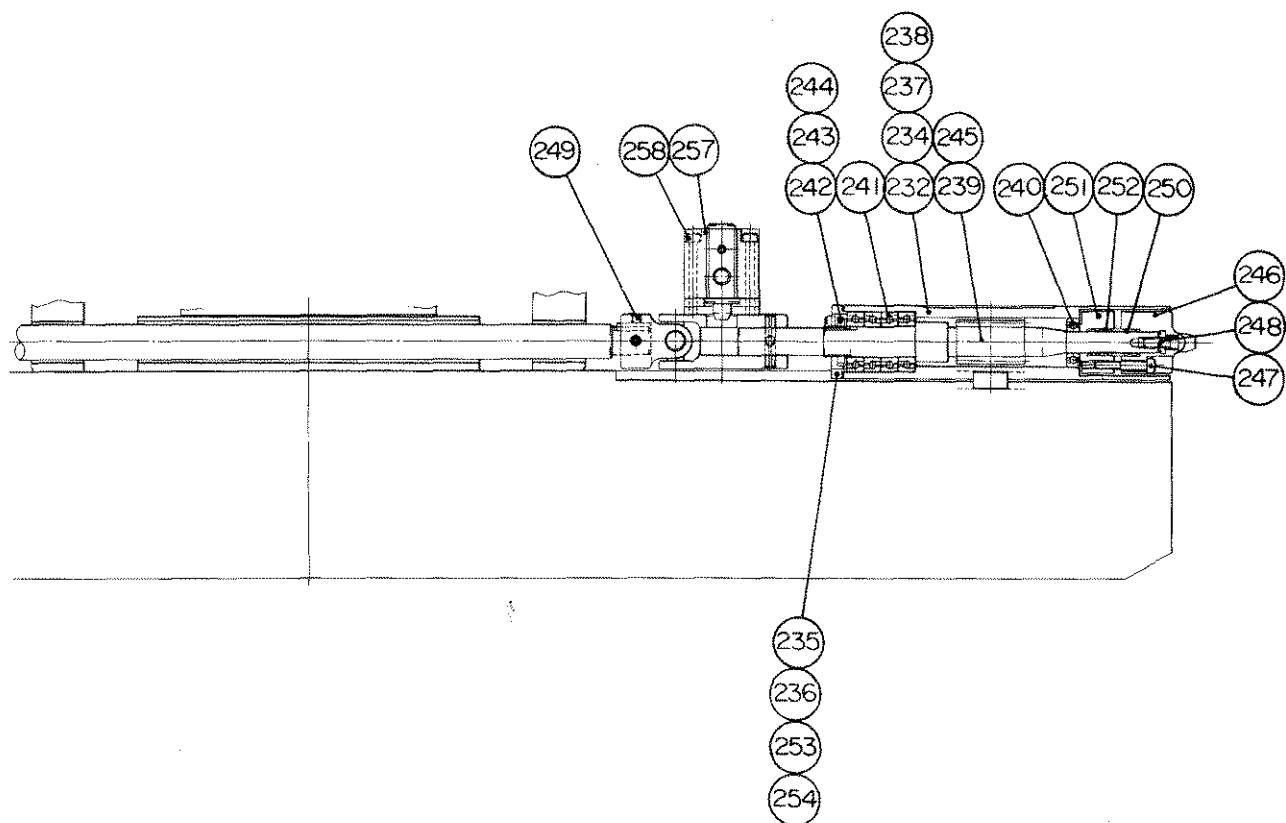
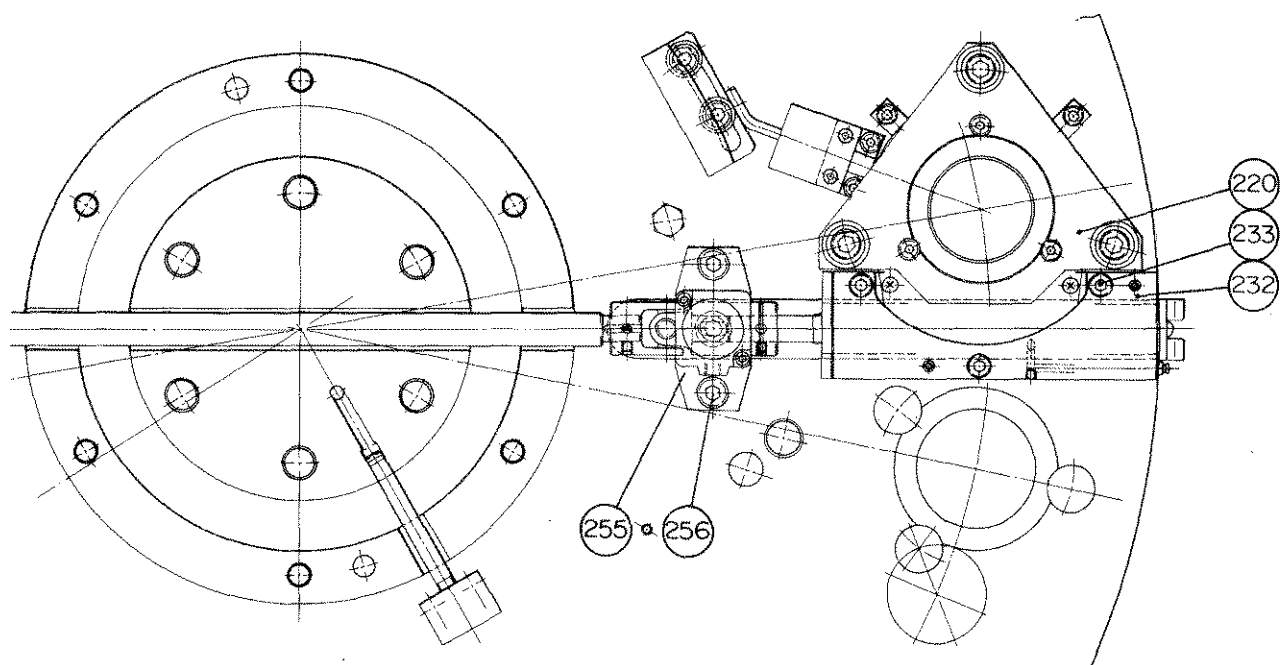


Unit No. 21

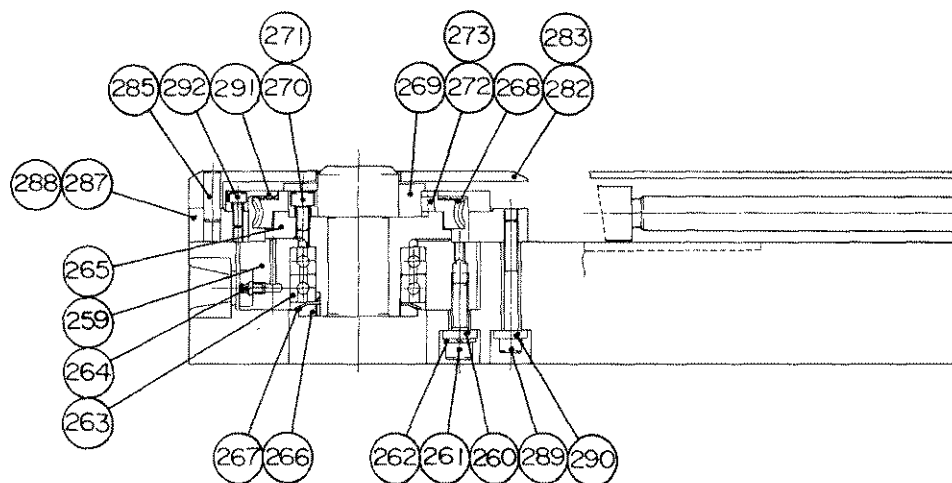
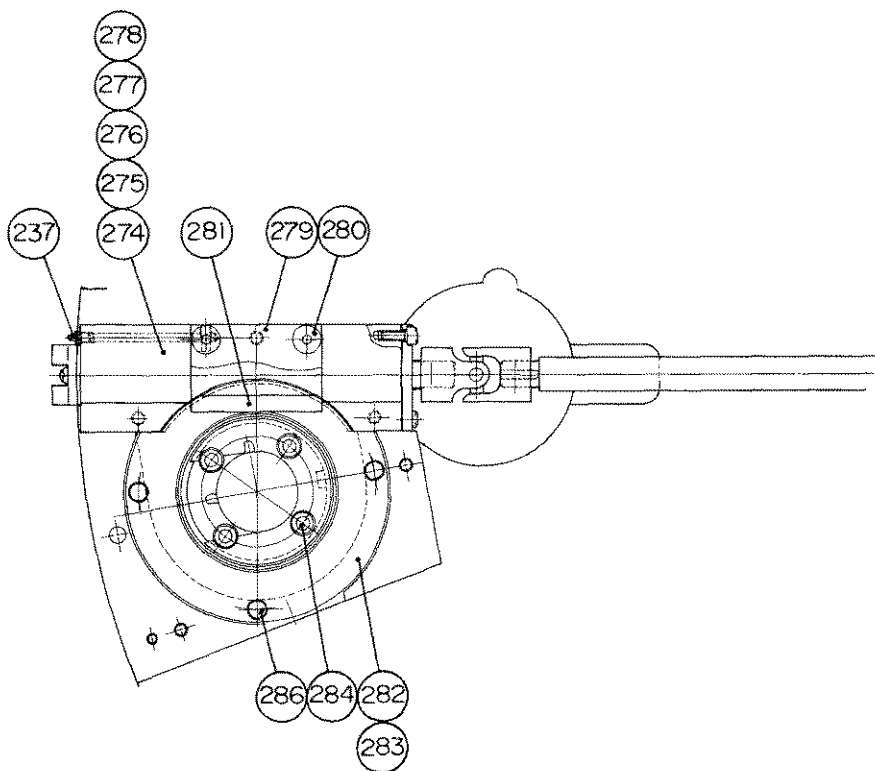
Auto-index (option)

From serial No.03670013 and after.

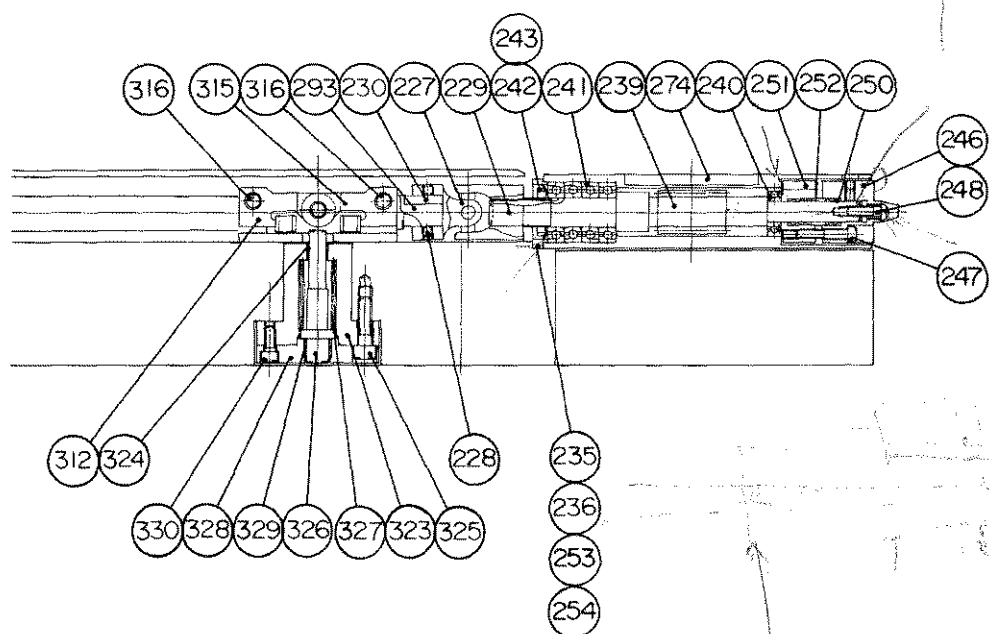
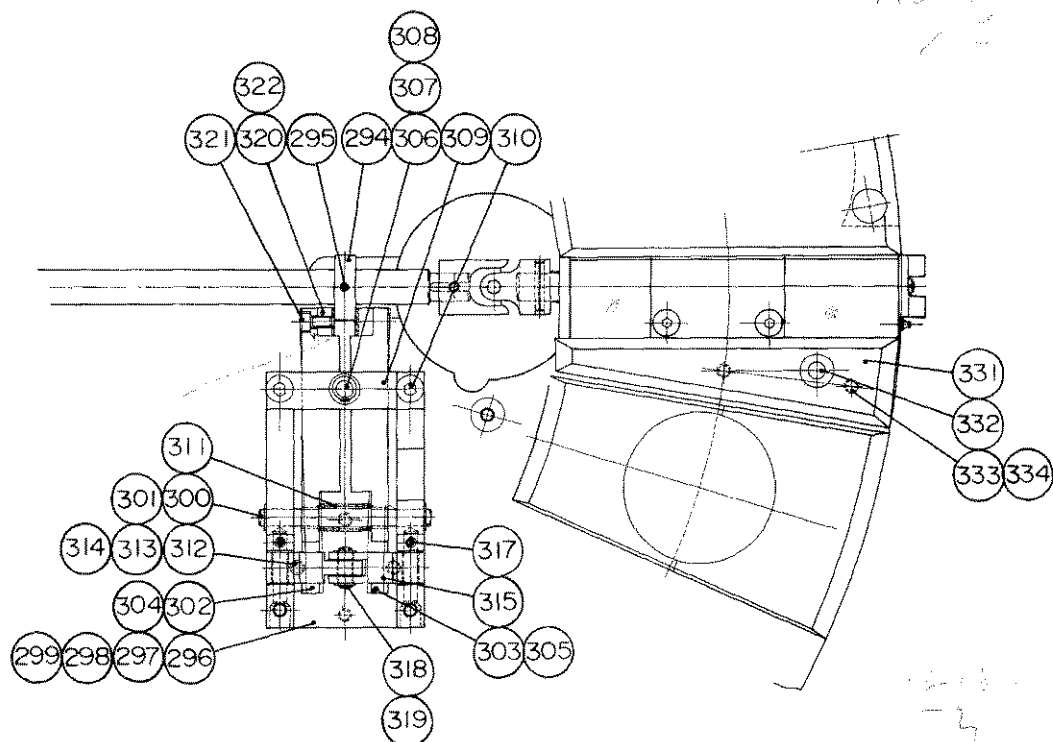
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Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
259	74313517	Bearing holder (lower)	822306a	2	
260	74306022	Washer	827013b	14	
261	74304948	Cap screw	M10 x 35 (unbrako)	14	
262	74300519 (10001520)	Spring washer	M10	14	
263	74312417	Ball bearing	7932017a	2	
264	74314728 (37115431)	Grease nipple	A-6 mm P1	2	
265	74313406	Support	821817a	2	
266	74313710 (74058931)	Crown nut	822308	2	
267	74314906 (13138205)	Crown washer	AW10	2	
268	74312627 (74058923)	Worm wheel (lower)	802244c	2	
269	74312702 (74058920)	Die holder	802245b	2	
270	74314421	Cap screw	M8 x 15 (unbrako)	4	
271	74302844	Cap screw	M8 x 20 (unbrako)	4	
272	74352303	Key	10 x 8 x 8 type 1	2	
273	74314009	Wheel key (with step)	822453	1	
274	74312610 (74058553)	Worm housing (lower)	802246e	2	
275	74315126	Straight pin (with screw)	Φ6 x 50	4	
276	74314811	Set screw (flat end)	M8 x 10	4	
277	74314204	Washer	827367	6	
278	74314422	Cap screw	M8 x 70 (unbrako)	6	
279	74312718	Cover plate	802248a	2	
280	74315325	Countersink had socket screw	M8 x 15	4	
281	74312721	Dust seal	802249	2	
282	74314214	Die spacer (58st)	827466a	2	
283	74314215	Die spacer (44st)	827467a	2	
284	74306304 (54117433)	Free stroke bearing	C-3S	4	
285	74315015	Fastener pin (with screw)	D-Φ10 x 30	2	
286	74302815	Cap screw	M6 x 20	2	
287	74314301	Die spacer support (58st)	827388b	2	
288	74314302	Die spacer support (44st)	807083c	2	
289	74314422	Cap screw	M8 x 70 (unbrako)	4	
290	74314204	Washer	827367	4	
291	74312604	Cover	807084a	2	
292	74300604	Cap screw	M6 x 15	6	

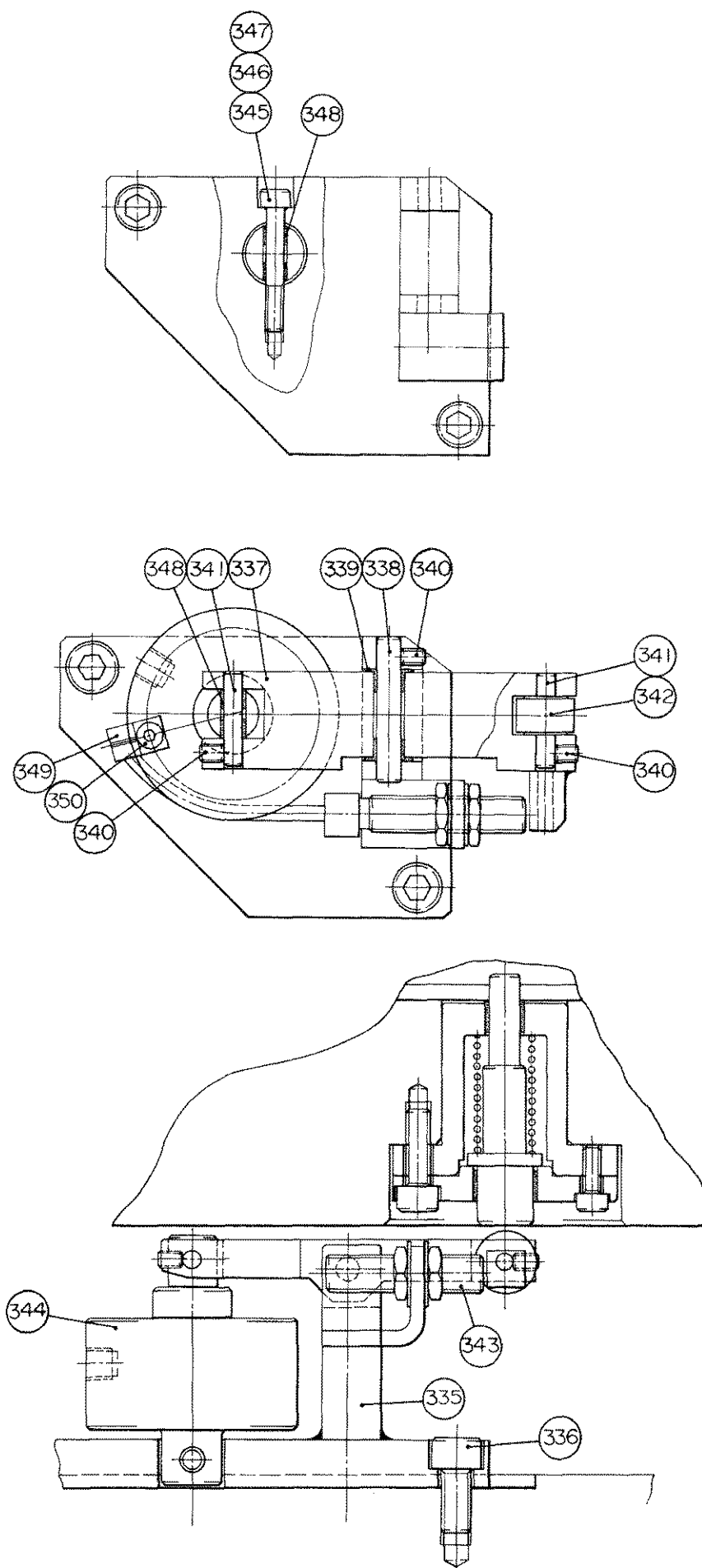


Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
293	74312617	Center shaft	802237b	1	
294	74312621	Brake shaft	802238c	1	
295	74314915	Spring pin	Φ6 x 30	1	
296	74313120	Brake holder (lower)	811859a	1	
297	74314204	Washer	827367	4	
298	74304951	Cap screw	M10 x 65 (unbrako)	3	
299	74314901	Cone disk spring	CWD-10H	3	
300	74314013	Guide pin	822462a	1	
301	74314616 (10205431)	Snap ring	STW-10	1	
302	74314106	Brake arm (C)	822473d	1	
303	74314107	Brake arm (D)	822474d	1	
304	74314923	Oilless metal bushing	MB-1008-18FDU	1	
305	74314922	Oilless metal bushing	MB-1006-18FDU	2	
306	74314125	Thrust washer	822490	1	
307	74314017	Arm pin	822465a	1	
308	74314616 (10205431)	Snap ring	STW-10	1	
309	74314001	Arm plate (lower)	822427a	1	
310	74314504	Button head socket screw	M8 x 15	2	
311	74313702	Spring	822467c	1	
312	74314025	Arm support (A)	822468b	1	
313	74314921	Oilless metal bushing	MB0808-15FDU	5	
314	74314126	Thrust washer	TW0815	1	
315	74314026	Arm support (B)	822469b	1	
316	74313815	Hinge pin	822399	2	
317	74314804	Set screw (knurl end)	M5 x 5 (unbrako)	2	
318	74314102	Swing pin	822470	1	
319	74314615 (36181516)	Snap ring	STW-8	2	
320	74314118	Brake plate	822484b	2	
321	74314605	Button head socket screw	M6 x 12 (unbrako)	2	
322	74314005	Brake shim	822434	1	
323	74313202	Pin holder	811844	1	
324	74315005	Oilless metal bushing	ML1010	1	
325	74300606 (44235241)	Cap screw	M8 x 20	4	
326	74313205	Stroke pin	811845b	1	
327	74313703	Spring	822482	1	
328	74313209	Holder cover	811846	1	
329	74315006	Oilless metal bushing	ML1810	1	
330	74300604	Cap screw	M6 x 15	4	
331	74312834	Auxiliary base (44st)	827413b	2	
332	74306304 (54117433)	Free stroke bearing (44st)	C-3S	2	

Unit No. **21**
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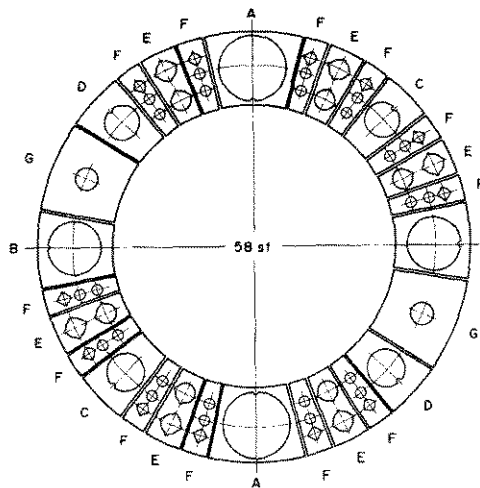


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Unit No.21

Auto-index (option)

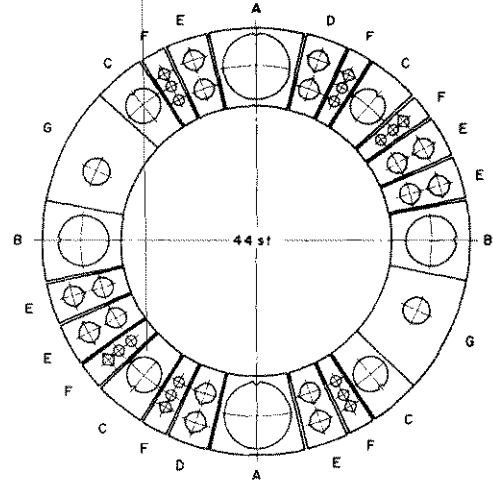
From serial No.03670013 and after.



Symbol	Size	Die holder	Die spacer	Q'ty
A	4-1/2"	419	423	2
B	3-1/2"	407	411	2
C	2"	388	394	2
D	2"	389	393	2
E	1-1/4"	364	*367	6
F	1/2"	351	356	12
G	1-1/4"	**287	282	2

* Lower die holder

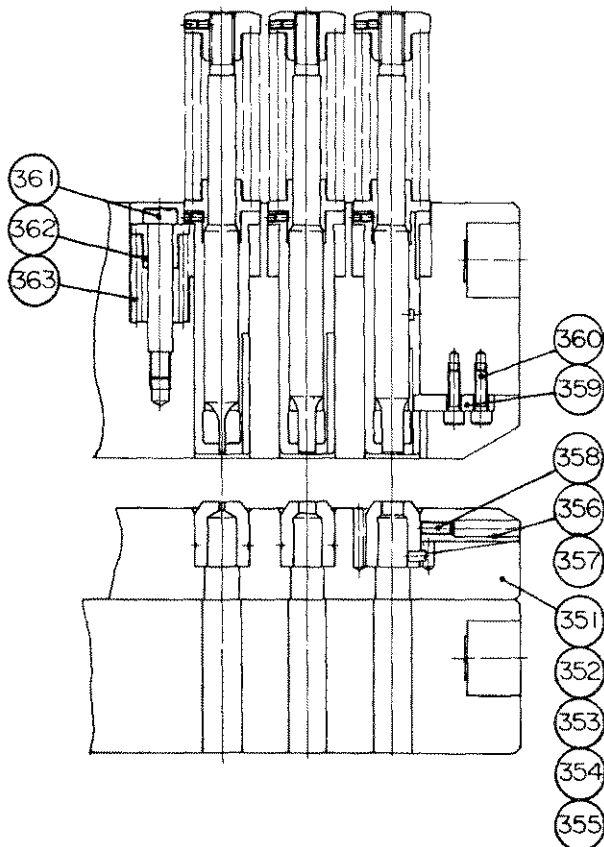
** Die spacer support



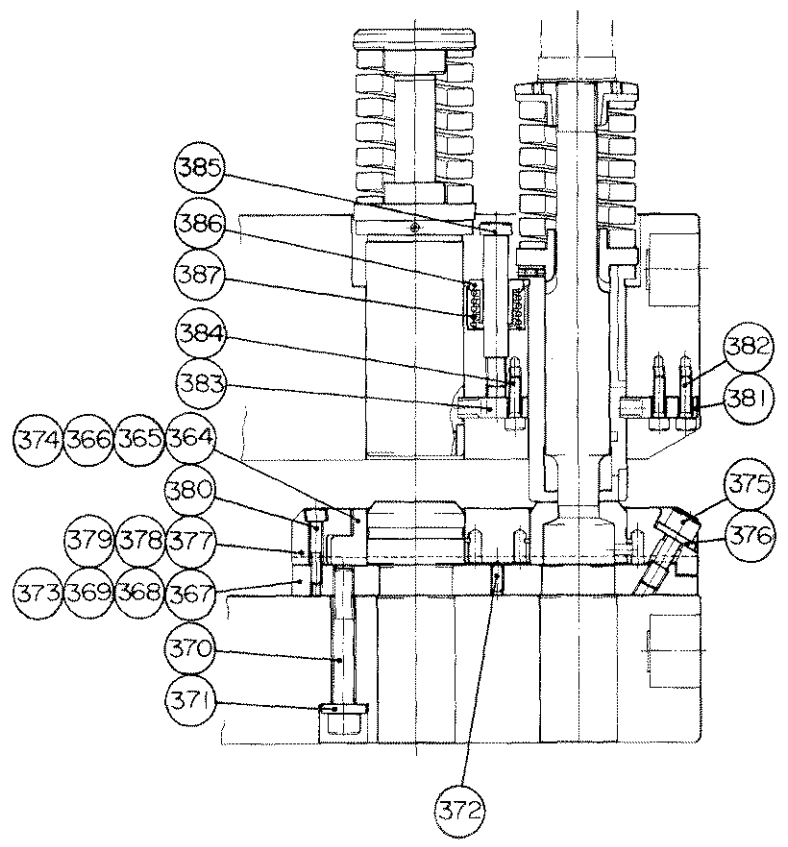
Symbol	Size	Die holder	Die spacer	Q'ty
A	4-1/2"	419	423	2
B	3-1/2"	407	411	2
C	2"	388	394	4
D	1-1/4"	365	*368	2
E	1-1/4"	366	*369	6
F	1/2"	351	356	6
G	1-1/4"	**288	283	2

* Lower die holder

** Die spacer support



1/2"-58st, 44st



1-1/4"-58st, 44st

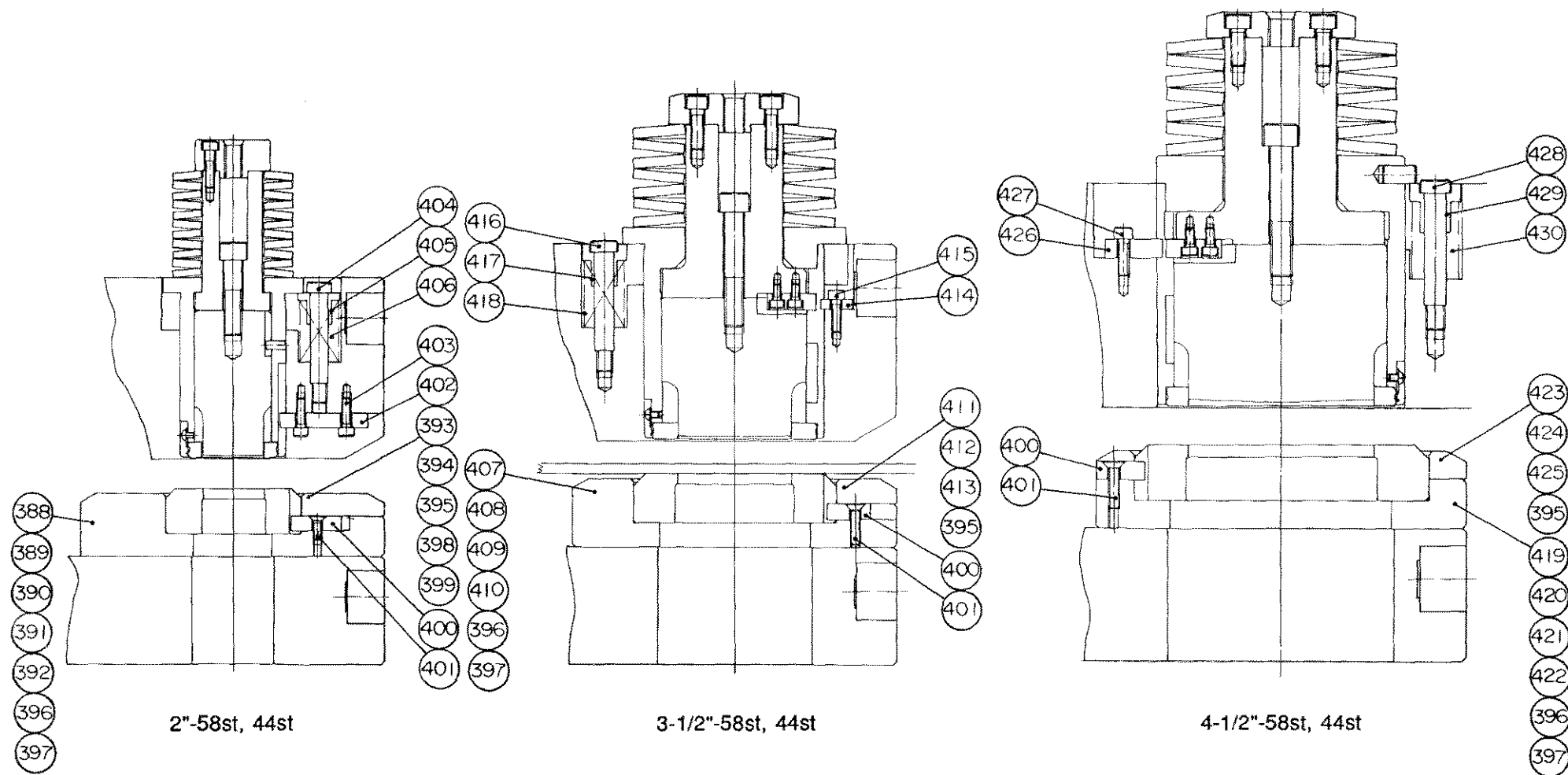
Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
351	74306122 (74164916)	1/2" die holder	827106c	12(6)	Please order together with index No.356
352	74315024	Ball plunger	BP-8H	24(12)	
353	74314424	Cap screw	M10 x 75 (unbrako)	48(24)	
354	74300519 (10001520)	Spring washer	M10	48(24)	
355	74314202	Washer	827013b	48(24)	
356	74306201	1/2" die spacer	827107b	12(6)	Please order together with index No.351
357	74315016	Fastener pin (with screw)	D- ϕ 8 x 25	24(12)	
358	74314808	Set screw (flat end)	M6 x 15	12(6)	
359	74306007	1/2", 1-1/4" Guide key	5501007g	12(6)	
360	74302842	Cap screw	M6 x 20 (unbrako)	24(12)	
361	74306018 (74165216)	Shoulder screw	5501017c	30(18)	
362	74306004 (74165223)	Lifter collar	5500217b	30(18)	
363	74306214 (74165232)	Lifter spring (B)	827241a	30(18)	
364	74312710	90° upper die holder	827471a	6	
365	74312704 (74165403)	Upper die holder	827091	(2)	
366	74312705 (74165405)	Upper die holder	827094	(6)	
367	74312711	Lower die holder	827472a	6	
368	74312706 (74165404)	Lower die holder	827092	(2)	
369	74312707 (74165406)	Lower die holder	827095	(6)	
370	74314423	Cap screw	M10 x 70 (unbrako)	24(32)	
371	74314202	Washer	827013b	24(32)	
372	74315023	Ball plunger	BP-6H	6(8)	
373	74314802 (10557819)	Set screw (flat end)	M5 x 6	12(16)	
374	74315024	Ball plunger	BP-8H	12(16)	
375	74314306	Corner bolt	827474a	6(8)	
376	74314205	Washer	827475	6(8)	
377	74314303	Block	827473a	6	
378	74312756	Block	827093	(2)	
379	74312757	Block	827096	(6)	
380	74304904	Cap screw	M6 x 30	12(16)	
381	74306007	1/2", 1-1/4" Guide key	5501007g	6(8)	
382	74302842	Cap screw	M6 x 20 (unbrako)	12(16)	
383	74312327	1-1/4" Guide key	827263	6(8)	
384	74302842	Cap screw	M6 x 20 (unbrako)	6(8)	
385	74306018 (74165216)	Shoulder screw	5501017c	30(42)	
386	74306004 (74165223)	Lifter collar	5500217b	30(42)	
387	74306214 (74165232)	Lifter spring (B)	827241a	30(42)	

*Parentheses in Q'ty indicate the quantity used in 44-station turret

Unit No.21
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Index No.	Parts No.	Parts Name	Drawing No. or Type	Q'ty	Note
388	74306123	2" die holder	827114g	2(4)	Please order together with index No.394
389	74312709	2" die holder (A)	827407	2	Please order together with index No.395
390	74314424	Cap screw	M10 x 75 (unbrako)	28(28)	
391	74300519 (10001520)	Spring washer	M10	28(28)	
392	74314202	Washer	827013b	28(28)	
393	74314213	2" die spacer (A)	827408	2	Please order together with index No.389
394	74306202	2" die spacer	827115f	2(4)	Please order together with index No.388
395	74315011 (54117433)	Free stroke bearing	C-3S	4(24)	
396	74313706 (74306026)	Spring (die spacer)	827018	16(48)	
397	74315120 (74306414)	Pan head machine screw	M4 x 8	16(32)	
398	74315016	Grooved fastener pin	D- ϕ 8 x 25	8(8)	
399	74314808	Set screw (flat end)	M6 x 15	4(4)	
400	74306001 (74165112)	Die key	488034c	4(8)	
401	74315207	Countersink head machine screw	M6 x 16	4(8)	
402	74306010 (74160501)	2" guide key	5501050c	4(4)	
403	74304941	Cap screw	M6 x 25 (unbrako)	8(8)	
404	74306018 (74165216)	Shoulder screw	5501017c	(12)	
405	74306004 (74165223)	Lifter collar	5500217b	(12)	
406	74306214 (74165232)	Lifter spring (B)	827241a	(12)	
407	74306127	3-1/2" die holder	827162g	2(2)	Please order together with index No.411
408	74314425	Cap screw	M12 x 75 (unbrako)	14(14)	
409	74301615 (44028619)	Spring washer	M12	14(14)	
410	74314203	Washer	827014b	14(14)	
411	74306206	3-1/2" die spacer	827163f	2(2)	Please order together with index No.407
412	74315203	Grooved fastener pin	D- ϕ 10 x 20	4(4)	
413	74314808	Set screw	M6 x 15	2(2)	
414	74306008 (74336711)	3-1/2" guide key	5501010c	2(2)	
415	74302842	Cap screw	M6 x 20 (unbrako)	2(2)	
416	74306018 (74165216)	Shoulder screw	5501017c	(8)	
417	74306014 (74165219)	Lifter ring	5501009c	(8)	
418	74306213 (74165233)	3-1/2,4-1/2" Lifter spring (A)	827240a	(8)	
419	74306124	4-1/2" die holder	827123g	2(2)	Please order together with index No.423
420	74314425	Cap screw	M12 x 75 (unbrako)	16(16)	
421	74301615 (44028619)	Spring washer	M12	16(16)	
422	74314203	Washer	827014b	16(16)	
423	74306203	4-1/2" die spacer	827125f	2(2)	Please order together with index No.419
424	74315203	Grooved fastener pin	D- ϕ 10 x 20	4(4)	
425	74314808	Set screw (flat end)	M6 x 15	2(2)	
426	74306009	4-1/2" guide key	5501016c	2(2)	
427	74302815	Cap screw	M6 x 20	2(2)	

*Parentheses in Q'ty indicate the quantity used in 44-station turret

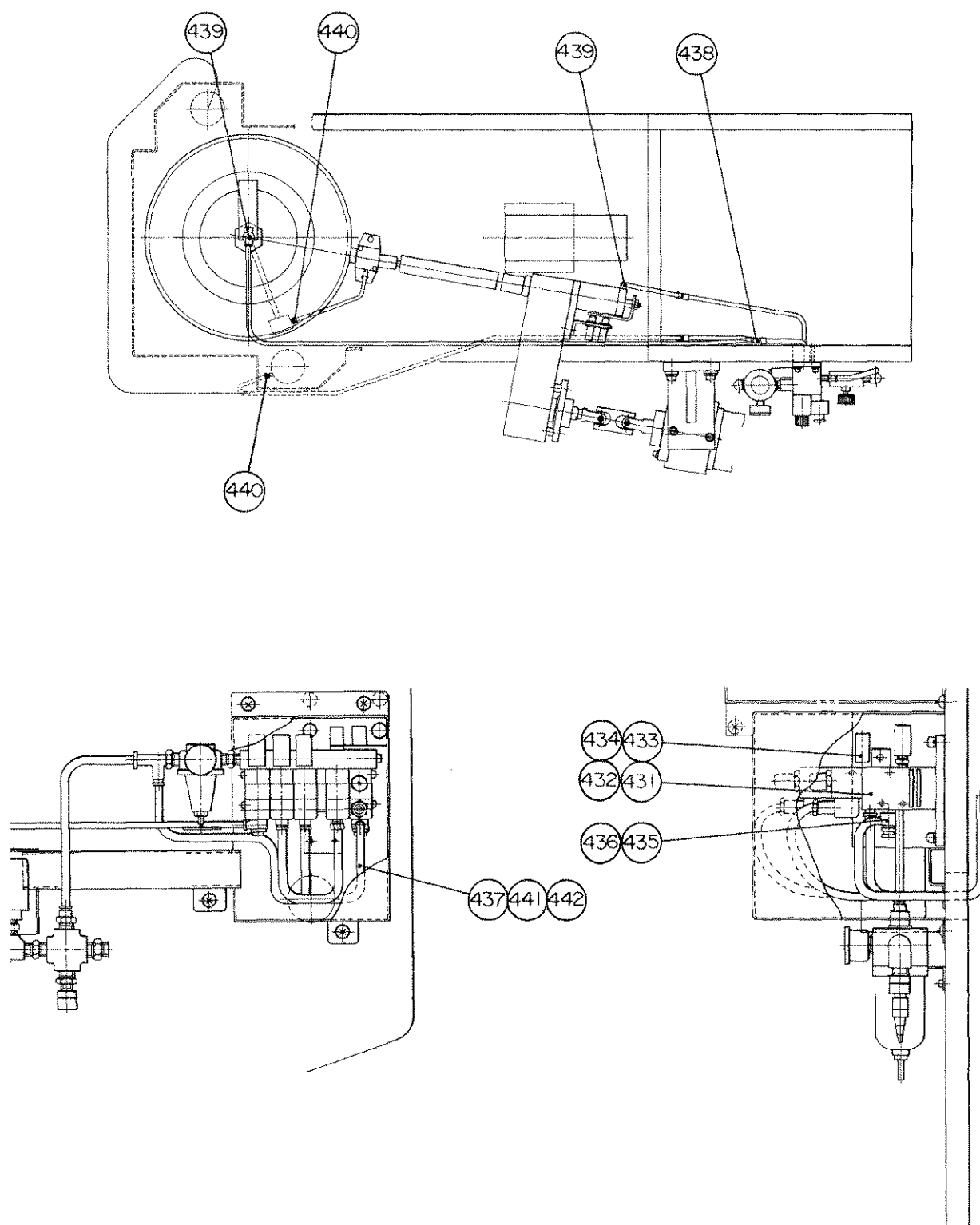
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Unit No. 21

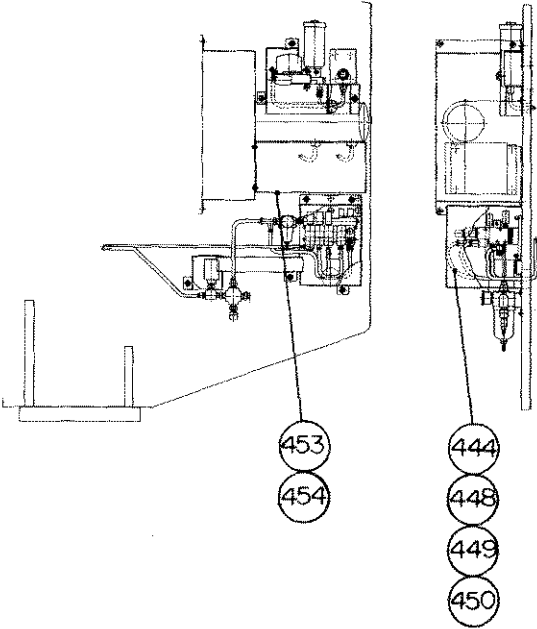
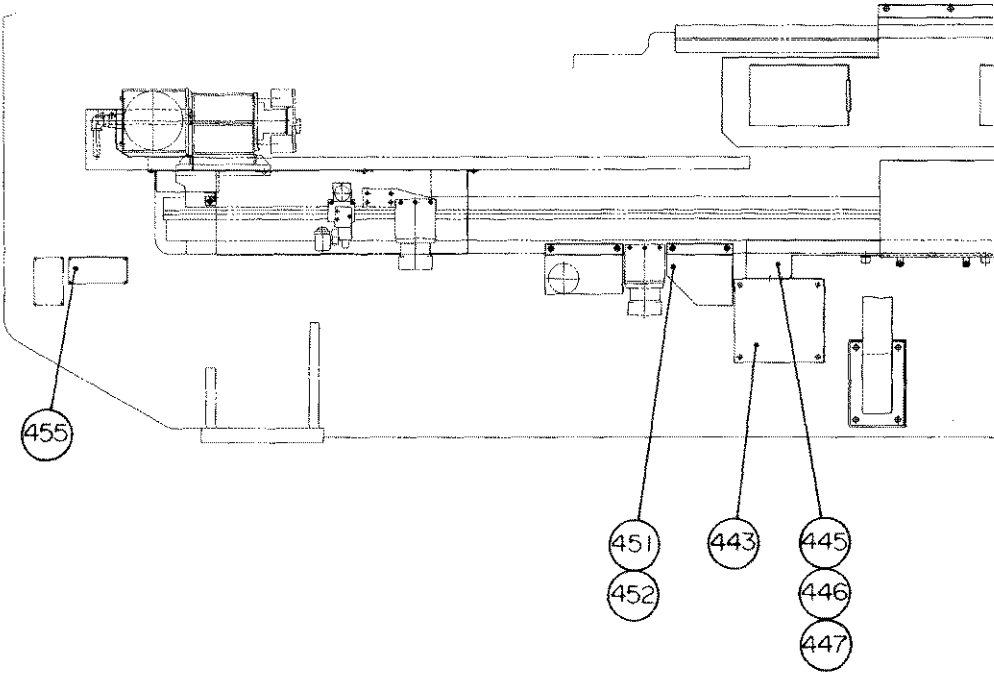
Auto-index (option)

From serial No.03670013 and after.

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Unit No.21
Auto-index (option)

From serial No.03670013 and after.



Unit No. 21

Auto-index (option)

From serial No.03670013 and after.

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